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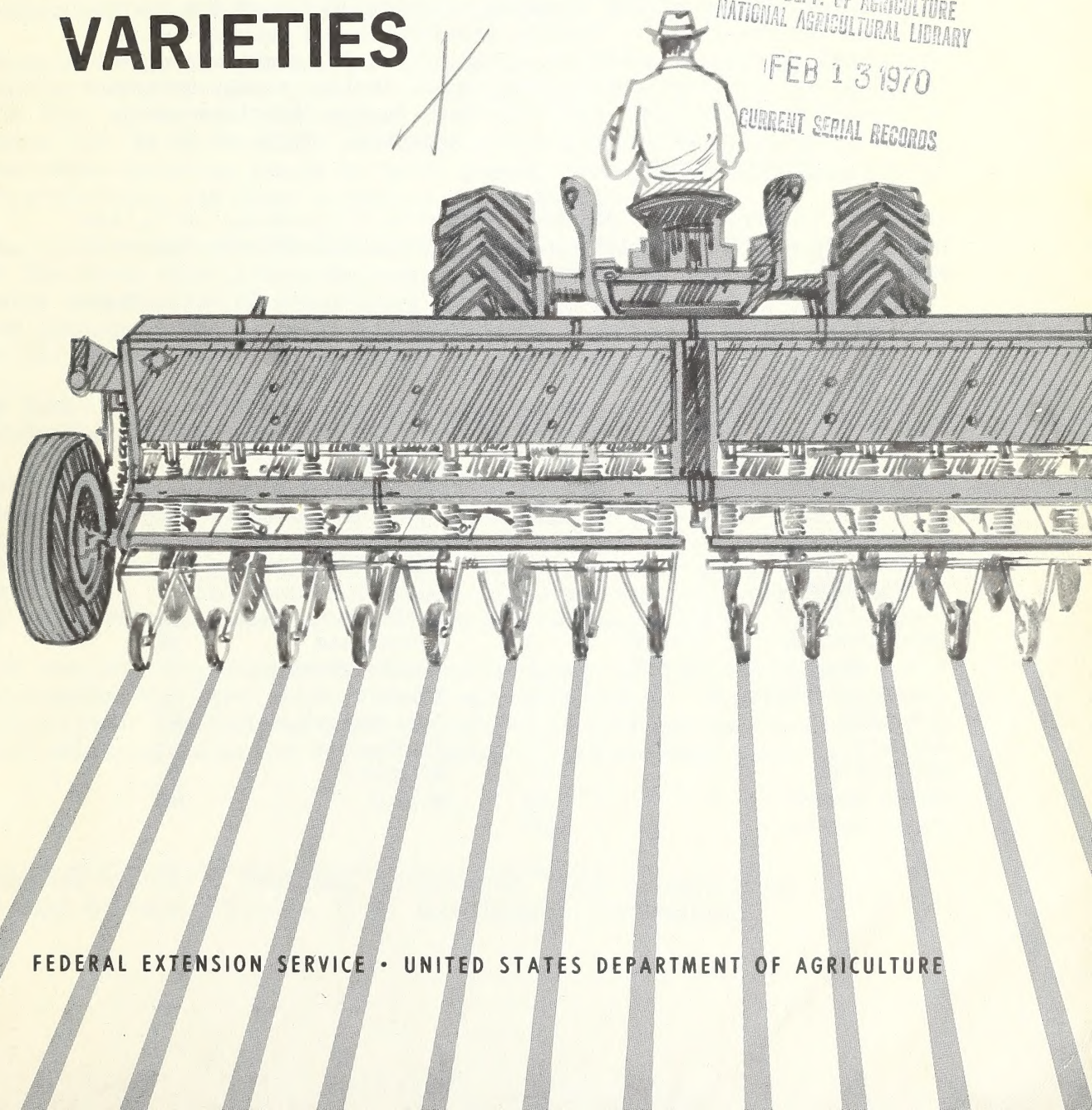
1969

TRENDS IN FORAGE CROPS VARIETIES

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PREFACE

Increasingly, American farmers depend for their forage seed needs on specialized seed growers situated in areas favored by soils and climate. As rewards, they are getting better seed, enjoying wider choice of varieties, and suffering less delay in obtaining new improved ones. These are major benefits arising from an alert close-working industry-farmer operation.

Yet, attractive opportunities exist for further advancement in the choice of seed. Most important is the displacement of "home-grown" seed of unknown quality.

Planter-box surveys afford shocking evidence of the extent of its use--and its costliness. Usually untested--hence unknown--much home-grown seed is undoubtedly a liability. Low germination, mixtures and weed seed content are common faults, easily detectable by laboratory tests. But most important is the deterioration in genetic purity--a quality not easily measured. Think of it as breeding for performance.

The principle applies to plants the same as to animals. It's that quality which makes the difference between a \$10,000 breeding bull and one fit only for slaughter.

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Trends in Forage Crops Varieties -- 1969

Purpose

The purpose of this report, the first since 1967, is to reflect changes in forage crop varieties one can reasonably expect. The specific aim is to identify varieties that are on the way up in usage, those on the way out, and the rate of change. Species dealt with are those of which the seed is grown largely in few localities for use elsewhere.

The study is designed to give us clues to the future of a new variety soon after it appears. It capitalizes State variety tests and farm performance. States' appraisals based on these experiences are collected, weighted and consolidated to denote the trends here reported.

Variety trends information serves both the buyer of forage seed (the consumer) and the seed producer. For the consumer, it tends to shorten the time gap between the release of a new variety and the stage at which seed becomes readily available. For the seed producer it indicates varieties likely to be in demand, hence, to be expanded in production; and those varieties to be reduced.

The "seed trade" is concerned with trends information for performance of its vital role in relating supply to demand. The industry makes a major contribution by encouraging seed production of desired varieties and placing it where needed. This critical function is made easier to the extent the demand situation is clarified.

In these ways the "Trends Survey" contributes to efficiency in both production and marketing.

Need for variety trends information has increased sharply in recent years. The centralization of seed production is one cause. The increase in number of forage varieties is another. From 13 alfalfa varieties listed in the 1956 survey, the number has risen to 77 in this report. While beneficial, both conditions intensify the problem of acquainting the seed producer with the consumer's wants.

The core of the problem is that users of forage seed are scattered nationwide, and their variety needs vary accordingly. Producers are centralized. Traditional means of reflecting consumer needs--as by seed sales--are slow and costly to producer and consumer alike, and

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to the seed trade in its efforts to link the two.

The aim of the study here reported is to shed light on these features of the problem nationally, systematically, promptly.

Survey Method

The survey covered 48 continental States. Alaska, Hawaii and Puerto Rico were omitted because their forage species and varieties differ.

In each State an Extension Forage Specialist was asked to assume responsibility for his State's report. All responded.

It was suggested that the specialists enlist help of everyone who could contribute in appraising the varieties. These include research and extension staff dealing with forage crops and seed, State Agricultural Department representatives, seedsmen, seed improvement association officers, and crop reporting officials. Several States conducted statewide variety surveys.

In simple terms, the question posed was this: Considering performance of the variety in your State tests and on farms, together with your judgment of your farmers' readiness to switch--what do you expect of it? Will it go up or down in usage, or will it remain stationary? If you expect a change, will the change be slight, moderate or sharp?

It was suggested that the State representatives assume seed would be available at competitive prices. This, experience has shown, is a critical consideration. No time limit was prescribed. We were seeking only the direction of change and its rate. A basic list of varieties was entered on the questionnaire. States were requested to list others.

Computing the Results

A value of 1.0 was assigned to varieties expected to remain stationary. Values ranging above one indicate increases and those below one, decreases. Thus, the seven possibilities in the full range of estimates

are expressed by the following numerical values:

Sharp increase	- 1.3
Moderate increase	- 1.2
Slight increase	- 1.1
Stationary	- 1.0
Slight decrease	- 0.9
Moderate decrease	- 0.8
Sharp decrease	- 0.7

To consolidate trends, each State's estimate was weighted proportionately to its share of total acreage of the crop found in all States growing the particular variety. Take Lincoln brome grass for an example. If one of the States reporting Lincoln grows ten times the total brome grass acreage of another State reporting Lincoln, the larger producer influenced trend estimates ten times as much as the smaller.* This manner of indicating trend is looked upon as a means of expressing consumer preference.

Understanding the Report

The numerical difference between 1.3 and 0.7 is small. But, as employed in this report, these numbers describe expected changes in the use of varieties ranging from sharp uptrends to sharp downtrends. Hence, 1.1 conveys a very different meaning from say, 0.9. Condensed in these small differences is the collective judgment of authorities on seed requirements.

Trend figures are the basic part of the report. Therefore, when sizing up the predicted future of a variety, the trend is the first item to consider. Also to be weighed are the number of States reporting the variety in question and the importance there of the crop. The present acreage of a given variety is much less significant, especially in the case of new ones.

As a generalization, the larger the number of States reporting a particular variety, the more accurate the prediction is likely to be. Exceptions are most likely to occur in the case of a variety so recently

* Occasionally, the sum of the acreages by varieties will not equal the total shown in the tables. This is due to the lack of a complete breakdown by varieties in these instances.

released that it has not yet been widely tested, or a variety that is adapted to a limited area or purpose. Importance of such considerations is intensified by the fact that this survey is designed to bring judgments to light as early as possible following the release of a variety. Obviously, the more important the crop is to the reporting region, the greater will be the demand potential for good varieties.

Small acreage is not a reflection upon a variety. Every new one must have a beginning. And among those with small acreages at present we likely will find our leading varieties of 5 to 10 years hence.

Other Uses of the Report

In addition to trend predictions the survey has other uses. For example,

1. It tells us where a particular forage crop is grown. It specifies the varieties used, by regions and by States.
2. It enables workers in one State to compare their appraisal of a variety with the judgment of workers in other States.
3. It identifies the areas where interest is greatest in a given variety.
4. When considered jointly with differences in seed prices among varieties, it reveals unsatisfied markets.

ACKNOWLEDGEMENTS:

Many people contributed to the production of this report--the extension agronomist who shouldered the responsibility of crystallizing judgments of varieties in his State, and coworkers who, together, appraised the varieties studied. They came from research, extension, crop reporting, seed trade, crop improvement, regulatory work and other fields concerned with crop improvement.

To all these we are grateful.

NOTATION:

For simplification, acreages of 100 acres or less were recorded 0.1 in Tables 1 - State estimates. The asterisk denotes a trace.

ALFALFA Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN
1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
ALFA													
ATLANTIC													
BLEND				.5			30.0	2.0	10.0			.5	12.5
BUFFALO				7.0			1.0	4.0	.1			3.0	33.6
CAYUGA				3.0			8.0	2.0	7.0				11.0
CARDINAL	2.8		1.0			6.0	8.0	104.0	40.0				50.0
CULVER							1.0		70.0	.1			220.3
DUPUITS			.5	.5	5.0	.8	1.0	15.0	25.0				1.0
FD 100				.2			1.0		.1			10.0	57.8
GLACIER													.3
NARRAGANSETT			18.0	1.0	5.0	7.0	.5	420.0	50.0	4.0		13.0	518.5
RANGER				.1			.5	65.0	40.0				105.6
SARANAC	4.2	1.0	3.5	3.0	7.0	1.2	8.0	210.0	100.0	.3	25.0	.2	363.4
VERNAL	6.0		1.0	3.0	5.0	3.0	25.0	65.0	200.0	.4	25.0	45.0	378.4
WILLIAMSBURG		4.0		64.5								10.0	78.5
OTHER PRIV. VAR.S				1.0				10.0	.1				11.0
525								20.0					20.1
WL 202				.1									.1
MARK 2			.5	.2	.5	.1		100.0	2.0	.1	5.0		108.4
SCOUT				.1					.1				.2
WARRIOR													.1
WL 303				.2									.2
EUROPA													.1
HAYMORE				.3					.1				7.4
IRROQUOIS	.8	.2	.5	.2	1.0	.1		7.0	25.0		5.0	1.5	54.3
WEEVLCHER		.1		.1				20.0					.2
FLORIDA 66												2.0	2.0
ALL OTHERS	.2						5.0		40.0		15.0		60.2
TOTAL	14.0	5.3	25.0	85.0	23.5	18.2	80.0	1,044.0	609.9	4.9	100.0	85.6	2,095.4

ALFALFA Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS
1000 ACRES

NORTH CENTRAL

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
ALFA	15.0	.5	50.0	5.0	10.0		5.0	6.0		15.0		2.0	108.5
ATLANTIC	.5			1.0									1.5
BLENDS	60.0	2.5	330.0	20.0		175.0	7.0	50.0	675.0	85.0	115.0	300.0	1,819.5
RUFFALO	50.0	1.5	10.0	1,154.0			18.0	75.0		2.0			1,310.5
CAYUGA	.5						1.0			3.0			5.0
CARDINAL	4.0	.1	5.0	2.0	15.0			6.0		1.0			33.1
CHEROKEE	.5	.1											.6
CODY	15.0	.1		405.0			150.0	10.0					580.1
COMMON	100.0	2.5	100.0	420.0	10.0		115.0	425.0	100.0		900.0	25.0	2,197.5
COSSACK			10.0								220.0		230.0
CULVER	.5	8.0					1.0			5.0			14.5
DUPUITS	15.0	4.5	300.0	2.0	250.0		45.0		10.0	90.0		200.0	916.5
FD 100	10.0	2.5	75.0		10.0		1.5	10.0		7.0		1.0	117.0
GLACIER	10.0	1.0	35.0		30.0				25.0	5.0		4.0	110.0
GRIMM		5.0	10.0			70.0			45.0		20.0	2.0	152.0
LADAK				2.8				10.0	175.0	1.0	.2		421.8
NARRAGANSETT		.5											1.7
OKLA. APPROVED	1.0	1.0											2.0
RAMBLER									10.0		3.0		13.0
RANGER	86.5	50.0	150.0	1.0	75.0	400.0	40.0	750.0	250.0	15.0	365.0	400.0	2,582.5
RESISTADOR		.1											.1
RHIZOMA							1.0			35.0	10.0		10.0
SARANAC	2.0	5.0			125.0				1.5		30.0	50.0	218.0
TETON									1.0		5.0	7.0	31.5
TRAVOIS	1.0												.5
NORSEMAN													
VERNAL	190.0	50.0	370.0	.5	725.0	1,000.0	200.0	250.0	375.0	185.0	300.0	2,217.0	5,862.5
M. FALCATA											1.0		3.0
OTHER PRIV. VAR.S													
PROGRESS	115.0	8.0	215.0	8.0		730.0	70.0		2.0	66.0	40.0	200.0	1,455.0
525	10.0	7.0	75.0		5.0		1.0			2.0		50.0	150.0
WL 202	10.0	1.5	125.0		10.0		2.0			10.0		100.0	258.5
MARK 2	20.0	1.5	60.0		10.0		4.0			3.0		200.0	298.5
SCOUT	2.0	12.0								2.0			2.0
WARRIOR	10.0	.1	25.0		20.0		10.0			15.0		2.0	31.0
WL 303	70.0	.1	5.0							15.0		190.0	270.1
EUROPA	2.0				5.0		1.0			2.0		5.0	95.1
HAYMORE	60.0	.5					1.0			2.0		.5	10.5
IROQUOIS					5.0					1.0		.5	64.0
WL 302	10.0									5.0			6.0
WEEVLCHEK										1.0			15.0
KANZA				.1						1.0			1.0
DAWSON							1.0	10.0			.2		.1
APEX	.5												11.2
522												50.0	50.0
DEKALB 123	4.0												4.0
STRIDE	1.0												1.0
A-59	4.0												4.0
WL 215							1.0			2.0			2.0
PAT. 30										30.0		1.0	185.0
ALL OTHERS					90.0	64.0							
TOTAL	880.0	166.1	1,950.0	2,021.4	1,395.0	2,439.0	675.5	1,602.0	1,672.5	620.0	2,243.9	4,000.0	19,665.4

ALFALFA Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
AFRICAN			.6									5.5		6.1
ATLANTIC				1.0	25.0			50.0		.1	.5			76.6
BLENDS												1.5		1.5
BUFFALO	.5	25.0		.3	40.0	4.0	1.0	.2	150.0		15.0	2.0	3.0	241.0
CALIVERDE							.1							.1
CAYUGA							.1							.1
CHEROKEE		1.5					.3	4.0		.5			1.0	7.3
CODY		6.0					.2				.5	6.0		162.7
COMMON				.3	15.0	1.8	.4	.6	150.0	1.0	3.0	225.0	17.0	563.5
DUPUITS					20.0		.4		300.0	.1			.5	21.6
FD 100					15.0						.1			15.1
HAIRY PERUVIAN			2.0			.5						12.0		14.5
INDIAN												6.0		6.0
LAHONTAN		7.0										8.0		15.0
MOAPA												7.5		7.5
NARRAGANSETT				.2	25.0		.2	.1		.1	.5		6.0	32.1
OKLA. APPROVED	2.5	2.0			18.0	8.5	.2				5.0			18.0
RANGER		1.0				2.5	.2						.5	21.7
SARANAC														.5
SONORA												3.0		3.0
VERNAL		5.0			40.0						.2			45.2
WILLIAMSBURG					20.0			.6			2.0		57.0	79.6
ZIA										.1		6.0		6.0
OTHER PRIV. VAR.S							.1					3.0		3.1
CALIVERDE 65					4.0		4.0						.8	.1
SCOUT														4.8
DELTA		3.0			3.0						1.0		.6	7.0
WEEVLCEK				.2							.3			4.6
ALL OTHERS	1.0													1.5
TOTAL	4.0	50.5	2.6	2.0	225.0	17.3	7.0	55.5	600.0	1.9	28.1	285.5	86.4	1,365.8

ALFALFA Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS
WESTERN
1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
AFRICAN	5.5					.3						5.8
ALFA												43.5
ATLANTIC			1.0	.5						40.0		6.0
BLENDS	40.0	290.0	11.0	120.0	125.0	10.0	4.0	1.0	15.0		5.0	745.0
BUFFALO			20.0	.1			2.0		.5			27.6
CAYUGA			1.0					1.0				2.0
CAROLINAL								1.0		5.0		6.0
CODY			30.0	.1		.3	2.0				.1	32.5
COMMON		15.0	170.0	220.0	425.0	3.0	52.0	2.0	85.0		73.0	1,045.0
COSSACK					15.0	1.8						16.8
CULVER				.1				1.0				1.1
DUPUITS		3.0		.5	12.0	1.0		23.0	1.1	55.0	.1	95.7
FD 100								2.5				2.5
GLACIER				.1								.1
GRIMM				12.0	220.0	.5		2.5	2.5		60.0	297.5
HAIRY PERUVIAN		1.0					2.0					3.0
LADAK		5.0	150.0	150.0		1.5		65.0	20.0	180.0	56.0	627.5
LAHONTAN	2.5	130.0	5.0	20.0		66.6	10.0	11.0	50.0			295.1
MEERER BALTIC			3.0								.5	3.5
MOAPA	40.0	180.0				7.0	2.0	2.0	.1		.1	229.2
NARRAGANSETT			1.0	1.5		3.0		12.0				14.9
NOMAD			1.0	.1	.8		1.0	30.0				30.0
DRESTAN											.2	9.7
RAMBLER		5.0	.5	.5	.5	2.0		1.0	310.0	35.0	140.0	1,383.0
RANGER	4.0	40.0	300.0	370.0	75.0	40.0	4.0	65.0	10.0	5.0		56.5
RESISTADOR		25.0	.5		3.0	5.0	6.0	2.0			.1	2.7
RHIZOMA			.5	.1				2.0				3.0
SARANAC	25.0	110.0		3.0		2.0		15.0			.5	137.0
SONORA												15.0
TALENT												.7
TETON					.2						.5	.1
TRAVOIS				.1								.6
NORSEMAN				.1	.5							7.1
UINTA			5.0					1.0	1.0		.1	675.0
VERNAL		50.0	25.0	10.0	125.0	5.0		110.0	3.0	345.0	2.0	101.5
ZIA	.5	180.0	1.0				100.0		1.0			186.5
OTHER PRIV. VAR.S			5.0	.5								.1
WL 202			5.0	.1								.5
MARK 2				.5								27.5
WASHOE	1.0	5.0		.5				1.0		10.0		30.0
CALIVERDE 65		30.0										100.5
MESA-SIRSA	47.5	50.0	.5	10.0	2.2		3.0	.2		4.0	1.0	17.9
WAYMORE				1.0				.2				1.0
TROQUOIS												.2
WL 302				.1								.1
TEAM												5.0
DAWSON			5.0									7.0
N.MEX. 11-1												7.0
INTERCROSS												.4
FLANDRIA									.4			1.0
APFX												.4
EL UNICO		10.0										10.0
ALL OTHERS	22.0				5.0							27.0
TOTAL	188.0	1,129.0	735.0	922.5	1,009.2	159.0	195.0	354.4	501.0	679.0	472.8	6,344.9

ALFALFA Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES					1000 ACRES			
ALFA	20.7	12.5	.59	.9	ALFA	48.0	108.5	.55	1.0
ATLANTIC	94.5	33.6	1.60	.9	ATLANTIC		1.5	*	1.1
BLENDS	30.4	11.0	.52	.9	BLENDS	1,445.8	1,819.5	9.25	1.0
BUFFALO	205.8	50.0	2.38	.9	BUFFALO	1,933.6	1,310.5	6.66	.8
CAYUGA	69.0	220.3	10.51	1.0	CAYUGA	4.0	5.0	.02	.9
CARDINAL		.1	*	.8	CARDINAL	6.7	33.1	.16	.9
CODY	.4				CHEROKEE		.6	*	1.0
CULVER	228.6	1.0	.04	1.0	CODY	158.9	580.1	2.95	1.0
DUPUITS		57.8	2.75	.8	COMMON	3,809.2	2,197.5	11.17	.9
FD 100		.3	.01	.9	COSSACK	333.2	230.0	1.17	1.0
GLACIER		.1	*	.8	CULVER	33.6	14.5	.07	.9
GRIMM	9.8				DUPUITS	601.7	916.5	4.66	.9
NARRAGANSETT	503.6	518.5	24.74	.9	FD 100	29.9	117.0	.59	1.0
RANGER	398.0	105.6	5.04	.9	GLACIER	5.8	110.0	.55	1.0
SARANAC	8.5	363.4	17.34	1.2	GRIMM	854.0	152.0	.77	.9
VERNAL	495.5	378.4	18.05	.9	LADAK	581.0	421.8	2.14	1.0
WILLIAMSBURG	55.2	78.5	3.74	.9	NARRAGANSETT	5.5	1.7	*	.9
OTHER PRIV. VAR.S					OKLA. APPROVED		2.0	.01	.9
525	11.0	.52	1.1	1.1	RANGLER	.7	13.0	.06	1.1
WL 202	20.1	.95	1.0	1.0	RANGER	6,227.5	2,582.5	13.13	.9
MARK 2	.1	*	1.1	1.1	RESISTADOR		.1	*	1.0
SCOUT	108.4	5.17	1.0	.9	RHIZOMA	9.1	10.0	.05	1.0
WARRIOR	.2	.01	.8	.8	SARANAC	218.0		1.10	1.2
WL 303	.1	*	1.1	1.1	TETON	5.9	31.5	.16	1.1
EUROPA	.2	.01	.7	.9	TRAVOIS	.3	7.0	.03	1.1
HAYMORE	7.4	.35	.9	.9	NORSEMAN		.5	*	1.0
TROQUOIS	54.3	2.59	1.2	1.2	VERNAL	4,713.0	5,862.5	29.81	1.0
WEEVLCHKEK	.2	.01	1.3	1.3	M. FALCATA	.8	3.0	.01	1.0
TEAM					OTHER PRIV. VAR.S	251.7	1,455.0	7.39	1.1
FLORIDA 66	2.0	.09			PROGRESS	150.0		.76	1.1
ALL OTHERS	60.2	2.87			525	258.5		1.31	1.1
TOTAL	2,095.4				WL 202	298.5		1.51	1.1
					MARK 2	2.0		.01	1.2
					SCOUT	31.0		.15	1.0
					WARRIOR	270.1		1.37	1.0
					WL 303	95.1		.48	1.1
					EUROPA	10.5		.05	1.0
					HAYMORE	64.0		.32	1.0
					TROQUOIS	6.0		.03	1.1
					WL 302	15.0		.07	1.0
					WEEVLCHKEK	1.0		*	1.2
					KANZA	.1		*	1.3
					DANSON	11.2		.05	1.0
					APEX	.5		*	1.1
					522	50.0		.25	1.2
					DEKALB 123	4.0		.02	1.1
					STRIDE	1.0		*	.9
					A-59	4.0		.02	1.1
					TEMPO				1.2
					WL 215	2.0		.01	1.2
					PAT. 30	1.0		*	1.0
					ALL OTHERS	432.8	185.0	.94	
					TOTAL	19,665.4			

ALFALFA Table 2 (Cont.)

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

SOUTHERN					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES								
AFRICAN	6.2	6.1	.44	1.0	AFRICAN	78.3	5.8	.09	.9
ATLANTIC	144.4	76.6	5.60	.9	ALFA	6.9	43.5	.68	1.0
BLFNDS		1.5	.11	1.0	ATLANTIC	7.8	6.0	.09	1.0
BUFFALO	281.0	241.0	17.64	1.0	BLENDS	482.0	745.0	11.74	1.0
CALIVERDE	.8	.1	*	1.0	BUFFALO	96.6	27.6	.43	.9
CAYUGA	.3	.1	*	1.0	CALIVERDE	37.0			
CARDINAL	.3				CAYUGA	1.7	2.0	.03	1.2
CHEROKEE	2.3	7.3	.53	1.0	CARDINAL	.5	6.0	.09	1.0
CHILLIAN 21-5	.4				CHEROKEE				1.0
CODY	36.0	162.7	11.91	1.1	CODY	11.1	32.5	.51	1.1
COMMON	538.8	563.5	41.25	.9	COMMON	1,235.0	1,045.0	16.47	.9
DUPUITS	49.5	21.6	1.58	.9	COSSACK	32.5	16.8	.26	1.0
FD 100	8.3	15.1	1.10	.9	CULVER	.6	1.1	.01	1.1
HAIRY PERUVIAN	24.0	14.5	1.06	.9	DUPUITS	116.8	95.7	1.50	.9
INDIAN	7.3	6.0	.43	1.0	FD 100	2.4	2.5	.03	1.0
LAHONTAN	19.1	15.0	1.09	.8	GLACIER		.1	*	1.0
MOAPA	4.0	7.5	.54	1.0	GRIMM	413.5	297.5	4.68	1.0
NARRAGANSETT	72.7	32.1	2.35	.9	HAIRY PERUVIAN	6.3	3.0	.04	1.0
OKLA. APPROVED	150.4	18.0	1.31	.8	LADAK	604.7	627.5	9.89	1.0
RANGER	31.0	21.7	1.58	1.1	LAHONTAN	528.8	295.1	4.65	1.0
SARANAC		.5	.03	1.1	MEEKER BALTIC	15.6	3.5	.05	1.0
SONORA	.3	3.0	.22	1.3	MOAPA	496.5	229.2	3.61	.9
VERNAL	24.5	45.2	3.30	1.1	NARRAGANSETT	7.4	7.6	.12	1.0
WILLIAMSBURG	105.7	79.6	5.82	1.1	NOMAD	22.7	14.9	.23	1.0
ZIA	3.9	6.0	.43	1.0	DRESTAN	21.0	30.0	.47	1.0
OTHER PRIV. VAR.S		3.1	.22	1.2	RAMBLER	26.4	9.7	.15	1.0
CALIVERDE 65		.1	*	1.0	RANGER	941.1	1,383.0	21.79	1.0
SCOUT		4.8	.35	1.0	RESISTADOR	8.0	56.5	.89	1.1
DELTA		7.0	.51	1.2	RHIZOMA	3.9	2.7	.04	1.0
WEEVLCHK		4.6	.33	1.3	SARANAC	.4	3.0	.04	1.1
TEAM				1.3	SONORA	43.3	137.0	2.15	.9
ALL OTHERS		1.5	.11		TALENT	14.7	15.0	.23	1.0
TOTAL		1,365.8			TETON	.3	.7	.01	1.0
					TRAVOIS		.1	*	1.0
					NORSEMAN		.6	*	1.1
					UINTA	1.6	7.1	.11	1.0
					VERNAL	479.9	675.0	10.63	1.0
					WILLIAMSBURG	2.0			1.0
					ZIA	37.1	101.5	1.60	1.1
					OTHER PRIV. VAR.S	50.0	186.5	2.93	1.2
					PROGRESS				1.0
					525				1.0
					WL 202		.1	*	1.0
					MARK 2		.5	*	1.0
					WASHOE		27.5	.43	1.2
					CALIVERDE 65		30.0	.47	1.1
					MESA-SIRSA		100.5	1.58	1.1
					HAYMORE		17.9	.28	1.1
					IROQUOIS		1.0	.01	.9
					WL 302		.2	*	1.1
					TEAM		.1	*	1.1
					DAWSON		5.0	.07	1.3
					N.MEX. 11-1		7.0	.11	1.0
					INTERCROSS		.4	*	1.1
					FLANDRIA		1.0	.01	1.1
					APEX		.4	*	1.0
					EL UNICO		10.0	.15	1.1
					ALL OTHERS	29.9	27.0	.42	
					TOTAL		6,344.9		

ALFALFA Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

S T A T E S

VARIETY	1962-66		TOTAL		REPORTING	
	AVERAGE	1969	ACREAGE	EXPECTED TREND	NO.	RECOMMENDED NO.
VERNAL	5,712.9	6,961.1	23.62	1.0	35	39
RANGER	7,597.6	4,092.8	13.88	.9	31	42
COMMON	5,583.0	3,806.0	12.91	.9	28	48
BLENDS	1,958.2	2,577.0	8.74	1.0	24	44
OTHER PRIV. VAR.S	301.7	1,655.6	5.61	1.1	18	31
RUFFALO	2,517.0	1,629.1	5.52	.9	27	35
DUPUITS	996.6	1,091.6	3.70	.9	30	39
LADAK	1,185.7	1,049.3	3.56	1.0	12	15
CODY	206.4	775.3	2.63	1.1	16	18
SARANAC	8.9	584.9	1.98	1.1	21	23
NARRAGANSETT	589.2	559.9	1.90	.9	24	27
GRIMM	1,277.3	449.5	1.52	.9	12	19
LAHONTAN	547.9	310.1	1.05	.9	10	11
WL 202		298.7	1.01	1.1	9	11
525		278.6	.94	1.1	11	13
ALL OTHERS	462.7	273.7	.92			
WARRIOR		270.2	.91	1.0	8	9
COSSACK	365.7	246.8	.83	1.0	5	8
MOAPA	500.5	236.7	.80	.9	7	11
CAYUGA	75.0	227.4	.77	1.0	18	19
ALFA	75.6	164.5	.55	1.0	15	20
WILLIAMSBURG	162.9	158.1	.53	1.0	9	9
PROGRESS		150.0	.50	1.1	9	11
SONORA	43.6	140.0	.47	1.0	4	4
FD 100	40.6	134.9	.45	1.0	15	19
ATLANTIC	246.7	117.7	.39	.9	15	19
GLACIER	5.8	110.2	.37	1.0	9	13
MARK 2		110.9	.37	1.0	10	15
ZIA	41.0	107.5	.36	1.1	4	5
MFSA-SIRSA		100.5	.34	1.1	3	4
WL 303		95.3	.32	1.1	7	10
HAYMORE		89.3	.30	1.0	14	22
IROQUOIS		61.3	.20	1.2	14	15
RESISTADOR	8.0	56.6	.19	1.1	11	16
522		50.0	.17	1.2	1	1
CARDINAL	7.5	39.2	.13	1.0	12	16
SCOUT		36.0	.12	1.0	8	13
ORESTAN	21.0	30.0	.10	1.0	3	3
TETON	6.2	32.2	.10	1.1	6	8
CALIVERDE 65		30.1	.10	1.1	2	2
WASHOE		27.5	.09	1.2	6	6
RAMBLER	27.1	22.7	.07	1.0	9	13
OKLA. APPROVED	150.4	20.0	.06	.9	6	8
CULVER	34.6	16.6	.05	.9	7	9
HAIRY PERUVIAN	30.3	17.5	.05	1.0	5	7
NOMAD	22.7	14.9	.05	1.0	5	8
TALENT	14.7	15.0	.05	1.0	3	3
WL 302		15.2	.05	1.0	3	7
DAWSON		16.2	.05	1.1	4	4
AFRICAN	84.5	11.9	.04	.9	4	6
RHIZOMA	13.0	12.7	.04	1.0	5	7
EUROPA		10.6	.03	1.0	6	9
EL UNICO		10.0	.03	1.1	1	1
CHEKOFF	2.3	7.9	.02	1.0	9	9
INDIAN	7.3	6.0	.02	1.0	1	1
TRAVOIS	.3	7.1	.02	1.1	4	5
UTINTA	1.6	7.1	.02	1.0	6	8
DELTA		7.0	.02	1.2	2	2
WEEVLCHER		5.8	.02	1.2	7	11
N.MEX. 11-1		7.0	.02	1.0	1	1
MEKKER RALTIC	15.6	3.5	.01	1.0	2	3
M. FALCATA	.8	3.0	.01	1.0	2	4
DEKALB 123		4.0	.01	1.1	1	3
A-59		4.0	.01	1.1	1	2
CALIVERDE	37.8	.1	.01	1.0	1	1
CHILLIAN 21-5	.4		.01			
NORSEMAN		1.1	*	1.0	3	4
TEAM		.1	*	1.3	4	4
KANZA		.1	*	1.3	1	1
FLORIDA 66		2.0	*			2
MESILLA			*			1
INTERCROSS		.4	*	1.1	1	2
FLANDRIA		1.0	*	1.1	1	2
APEX		.9	*	1.1	2	4
STRIDE		1.0	*	.9	1	2
TEMPO			*	1.2	1	1
WL 215		2.0	*	1.2	1	2
PAT. 30		1.0	*	1.0	1	1

TOTAL

29,471.5

RED CLOVER Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	M.VA.	TOTAL
CHESAPEAKE		15.0		86.0			5.0		5.0			20.0	131.0
COMMON	2.5		12.0	110.0	20.0	2.8	2.0	488.0	325.0				962.3
DOLLARD	.1					.4		8.0			2.0		10.5
KENLAND				8.0		1.4	1.0		.1			10.0	20.5
LAKELAND	.1		.5		.5	1.8							2.9
MAMMOTH			15.0	1.0				128.0	15.0				159.0
PENNSCOTT	2.3	5.0	3.5	15.0	2.0	7.0	21.0	176.0	350.0	4.0	10.0	10.0	605.8
ALL OTHERS							1.0		.1		10.0	2.0	13.1
TOTAL	5.0	20.0	31.0	220.0	22.5	13.4	30.0	800.0	695.2	4.0	22.0	42.0	1,905.1

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
CHESAPEAKE		500.0		15.0	250.0	170.0	275.0	220.0	.1	10.0			510.0
COMMON	364.0		425.0		5.0	65.0			.4	720.0	.8	624.0	3,063.9
DOLLARD			25.0								.2		95.6
KENLAND	1.0	18.0	40.0	1.5				20.0	.1	200.0	.2		280.8
LAKELAND			60.0		5.0	65.0	350.0		.9	20.0	.3	150.0	651.2
MAMMOTH	40.0	55.0	25.0		100.9					10.0	.2	1.0	232.1
NOLIN'S									.4				.4
PENNSCOTT		.1	10.0		5.0					30.0			45.1
MIDLAND								10.0					10.0
ALTASWEDE	40.0	55.0	15.0		60.0					10.0			170.0
R.F.2													10.0
ALL OTHERS	5.0											100.0	105.0
TOTAL	450.0	628.1	600.0	16.5	425.9	300.0	625.0	250.0	1.9	1,000.0	1.7	875.0	5,174.1

RED CLOVER Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
CHESAPEAKE														
COMMON			.1		10.0			8.0		.1			175.0	193.2
KENLAND		15.0	.5	.5	260.0	.5		16.5					234.0	611.0
LAKELAND			.2		700.0	1.5	3.0	21.0	1.0	.1	100.0	1.0	42.0	1,105.6
NOLIN'S			.3											.2
ORBIT	.1	1.0	.1			.8						.5		1.1
PENNSCOTT			.1			.2	6.0				3.0		17.0	7.9
PORT GIBSON						.6	1.0					1.0		20.1
TENSAS		1.0	.4			1.8								1.6
VA. ADAPTED													117.0	4.2
TENN WILT RESISTANT				.5				5.0			4.0			117.0
ALL OTHERS											10.0	.4		4.0
TOTAL	.1	17.0	1.7	1.0	970.0	5.4	10.0	50.5	1.0	.2	437.0	2.9	585.0	2,081.8

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLOR.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
CHESAPEAKE												
COMMON		1.0										1.0
DOLLARD		70.0	17.0	129.0	75.0	48.0		20.0	78.0	35.0		472.0
KENLAND		70.0	1.5					2.0			.5	4.0
LAKELAND		15.0	.5	1.0	40.0	1.0		60.0	17.0	100.0	.1	289.1
MAMMOTH			3.0	1.0	.2	.5		1.0		100.0		118.2
PENNSCOTT			2.0	1.0		.5		5.0		10.0	.5	3.0
ALTASMEDE			1.0		1.0							19.0
TOTAL		156.0	25.0	132.0	116.2	50.0		88.0	95.0	245.0	1.1	908.3

RED CLOVER Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES					1000 ACRES			
CHESAPEAKE COMMON	57.0	131.0	6.87	1.0	CHESAPEAKE COMMON	510.0	510.0	9.85	1.0
DOLLARD	907.8	962.3	50.51	.9	DOLLARD	5,148.8	3,063.9	59.21	1.0
KENLAND	14.0	10.5	.55	.9	KENLAND	270.9	95.6	1.84	1.0
LAKELAND	77.3	20.5	1.07	1.0	LAKELAND	841.4	280.8	5.42	1.0
MAMMOTH	.9	2.9	.15	.9	MAMMOTH	123.3	651.2	12.58	1.1
PENN SCOTT	73.0	159.0	8.34	1.0	PENN SCOTT	453.0	232.1	4.48	1.0
ALL OTHERS	682.3	605.8	31.79	1.0	NOLIN'S	.4		*	1.0
	159.5	13.1	.68		MIDLAND	123.9	45.1	.87	1.0
TOTAL		1,905.1			ALTASWEDE	3.3	10.0	.19	1.0
					R.F.#2	170.0	3.28	3.28	1.1
					ALL OTHERS	50.7	105.0	.19	1.1
					TOTAL	5,174.1		2.02	
					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES					1000 ACRES			
CHESAPEAKE COMMON	63.0	193.2	9.28	1.1	CHESAPEAKE COMMON	401.6	1.0	.11	1.0
KENLAND	335.6	611.0	29.35	1.1	DOLLARD	5.2	4.0	51.96	1.0
LAKELAND	791.2	1,105.6	53.10	1.0	KENLAND	372.1	289.1	.44	1.0
NOLIN'S	.2		.01	1.0	LAKELAND	28.5	118.2	31.82	1.0
ORBIT	1.7	1.1	.05	1.0	MAMMOTH	.5	3.0	13.01	1.0
PENN SCOTT	2.2	7.9	.37	1.1	PENN SCOTT	76.9	19.0	.33	1.0
PORT GIBSON	4.9	20.1	.96	1.0	ALTASWEDE	2.0		2.09	1.0
TEN SAS	8.1	1.6	.07	.9	ALL OTHERS	9.0		.22	1.1
VA. ADAPTED	2.5	4.2	.20	1.1					
TENN WILT RESISTANT		117.0	5.62	1.0	TOTAL	908.3			
ALL OTHERS	2.5	15.9	.19	1.0					
TOTAL		2,081.8	.76						

RED CLOVER Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	A C R E A G E		TOTAL ACREAGE	S T A T E S		
	1962-66	1969		EXPECTED TREND	RECOMMENDED	
	AVERAGE			PERCENT	NO.	
COMMON	6,793.8	5,109.2	50.74	1.0	32	53
KENLAND	2,082.0	1,696.0	16.84	1.0	33	39
CHESAPEAKE	120.4	835.2	8.29	1.0	13	14
LAKELAND	152.7	772.5	7.67	1.0	21	23
PENNSCOTT	888.0	690.0	6.85	1.0	25	25
MAMMOTH	526.5	394.1	3.91	1.0	12	19
ALTASWEDE		172.0	1.70	1.1	6	8
ALL OTHERS	221.7	134.0	1.33			
VA. ADAPTED		117.0	1.16	1.0	1	1
DOLLARD	290.1	110.1	1.09	1.0	12	16
MIDLAND	3.3	10.0	.09	1.0	1	1
R.F.2		10.0	.09	1.1	1	2
ORBIT	2.2	7.9	.07	1.1	6	7
TENSAS	2.5	4.2	.04	1.1	4	4
TENN WILT RESISTANT		4.0	.04	1.0	1	2
NOLIN'S	1.7	1.5	.01	1.0	3	3
PORT GIBSON	8.1	1.6	.01	.9	2	2
TOTAL		10,069.3				

WHITE CLOVER Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
COMMON													
LADINO	3.0	40.0	14.0	2.0	1.5	10.0	30.0	50.0	.1	4.0		20.0	2.1
PILGRIM				158.0			10.0		15.0				345.5
CERT. OREGN-CAL.									30.0		30.0		10.0
ALL OTHERS									.1				60.0
TOTAL	3.0	40.0	14.0	160.0	1.5	10.0	40.0	50.0	45.2	4.0	30.0	20.0	417.7

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
COMMON													
LADINO	38.0	90.0	20.0		38.0		425.0	2.5		250.0		40.0	292.5
PILGRIM					2.0			7.5		400.0		599.5	1,618.0
MERIT	62.0		50.0									.5	2.0
ALL OTHERS						200.0							112.5
TOTAL	100.0	90.0	70.0		40.0	200.0	425.0	10.0		650.0		640.0	2,225.0

WHITE CLOVER Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS												
SOUTHERN												
1000 ACRES												
VARIETY	ALA.	ARK.	FLA.	G.A.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TOTAL
ALALU		400.0			400.0			175.0		15.0	10.0	10.0
COMMON										2.5	50.0	3,675.0
ESPANSO										40.0	200.0	2.5
LADINO	40.0	350.0	5.0	50.0	750.0	5.0	10.0	900.0	10.0	25.0	15.0	3,261.0
LA. S-1	50.0	160.0	40.0	1.0		310.0	75.0		2.0	12.5	600.0	773.0
LA. WHITE	150.0	50.0	4.0	200.0		40.0				10.0		1,091.5
NOLIN'S			30.0							.5		80.0
PILGRIM							200.0		.5	5.0	3.0	.5
REGAL	250.0	20.0			.6			22.0	.5			480.1
CERT. OREGN-CAL.					1.5		5.0			.1	.5	22.5
MFRIT					.4	20.0		5.0		.2	5.0	6.5
TILLMAN												6.1
ALL OTHERS	100.0											125.2
TOTAL	590.0	980.0	79.0	251.0	1,152.5	375.0	290.1	1,102.0	12.5	111.3	883.5	9,533.9
WESTERN												
1000 ACRES												
VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
COMMON			15.0	2.0	5.0	7.0		10.0	135.0			174.0
LADINO	.2	710.0	5.0		2.0	6.0	.6	50.0	35.0	50.0	.5	859.3
LA. S-1								5.0				5.0
LA. WHITE								45.0				45.0
NEW ZEALAND		5.0						10.0		120.0		135.0
PILGRIM						2.0		4.0				6.0
REGAL		2.0										2.0
CERT. OREGN-CAL.		1.0				3.0						3.0
MFRIT		3.0										1.0
ALL OTHERS						10.0						13.0
TOTAL	.2	721.0	20.0	2.0	7.0	28.0	.6	124.0	170.0	170.0	.5	1,243.3

WHITE CLOVER Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH EASTERN				NORTH CENTRAL			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TEND	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TEND
	1962-66 AVERAGE	1969			1962-66 AVERAGE	1969		
	1000 ACRES				1000 ACRES			
COMMON	48.8	2.1	.50	1.0	243.5	292.5	13.14	1.0
LADINO	443.7	345.5	82.71	.9	3,196.9	1,618.0	72.71	1.0
PILGRIM	6.3	10.0	2.39	1.0		2.0	.09	.9
CERT. OREGN-CAL.	28.3	60.0	14.36	1.0	19.8	112.5	5.05	1.1
ALL OTHERS	.8	.1	.02		66.7	200.0	8.98	
TOTAL	417.7				2,225.0			

VARIETY	SOUTHERN				WESTERN			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TEND	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TEND
	1962-66 AVERAGE	1969			1962-66 AVERAGE	1969		
	1000 ACRES				1000 ACRES			
ALALU	36.2	10.0	.10	1.0	216.1	174.0	13.99	1.0
COMMON	2,955.2	3,675.0	38.54	1.0	790.1	859.3	69.11	1.0
ESPANCO		2.5	.02	1.1		5.0	.40	1.1
LADINO	2,708.7	3,261.0	34.20	1.0		45.0	3.61	1.0
LA. S-1	453.1	773.0	8.10	1.1	107.6	135.0	10.85	1.0
LA. WHITE	1,664.0	1,091.5	11.44	.9	17.2	6.0	.48	1.1
NOLIN'S	64.4	80.0	.83	1.0		2.0	.16	1.0
PILGRIM	5.0	.5	*	1.0		3.0	.24	1.1
REGAL	12.3	480.1	5.03	1.2		2.0	.08	1.0
CERT. OREGN-CAL.		22.5	.23	1.0		1.0		
MERIT		6.5	.06	1.1	.3			
TILLMAN		6.1	.06	1.1	34.8	13.0	1.04	
ALL OTHERS	343.6	125.2	1.31					
TOTAL	9,533.9				1,243.3			

WHITE CLOVER Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	1962-66		1969	TOTAL		
	AVERAGE	ACREAGE		TEND	REPORTING RECOMMENDED	
					PERCENT	NO.
LADINO	7,139.4	45.33	6,083.8	1.0	42	47
COMMON	3,463.6	30.87	4,143.6	1.0	17	27
LA. WHITE	1,664.0	8.46	1,136.5	1.0	8	13
LA. S-1	453.1	5.79	778.0	1.1	11	12
REGAL	12.3	3.59	482.1	1.2	9	10
ALL OTHERS	445.9	2.52	338.3			
NEW ZEALAND	107.6	1.00	135.0	1.0	3	4
MERIT	20.1	.89	120.0	1.1	6	8
CERT. OREGN-CAL.	28.3	.63	85.5	1.0	5	6
NOLIN'S	64.4	.59	80.0	1.0	3	4
PILGRIM	28.5	.13	18.5	1.0	5	8
ALALU	36.2	.07	10.0	1.0	1	2
TILLMAN		.04	6.1	1.1	6	6
ESPANSO		.01	2.5	1.1	1	1
TOTAL			13,419.9			

SWEET CLOVER Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
COMMON				1.0			.2						1.2
TOTAL				1.0			.2						1.2

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
COMMON	341.5	150.0	170.0	14.5	100.0	147.0	60.0	355.0	80.0	95.0	200.0	10.0	1,723.0
DENTA									.9		.1		1.0
EVERGREEN	3.0					1.0		5.0	8.0				17.0
GOLDTOP						1.0		5.0	50.0	5.0	3.0		59.0
HUBAM	.5		20.0										25.5
MADRID	15.0		80.0	87.0		1.0	60.0	25.0	125.0		3.0		400.0
TOTAL	360.0	150.0	270.0	101.5	100.0	150.0	120.0	390.0	263.9	100.0	206.1	14.0	2,225.5

Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
COMMON					10.0	.5		.2		.1				10.8
EVERGREEN					10.0				5.0					15.0
FLORANA			7.0			.3						5.0		12.3
HUBAM		1.0	13.0	.4		7.2		1.2	10.0	.1		100.0		122.9
ISRAEL			.1									10.0		20.1
MADRID		2.0		.1								9.0		11.0
ALL OTHERS												7.0		7.1
TOTAL	3.0	3.0	20.1	.5	20.0	8.0		1.4	15.0	.2		131.0		199.2

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLD.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
COMMON												338.0
GOLDTOP		5.0	87.0		75.0	4.0			17.0		150.0	
HUBAM			1.0								.5	1.5
MADRID			10.0		3.0	.5			1.0			14.5
ALL OTHERS			2.0		3.0	1.0					.5	6.5
						.5						.5
TOTAL	5.0	5.0	100.0		81.0	6.0			18.0		151.0	361.0

SWEET CLOVER Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	
	1962-66 AVERAGE	1969			1962-66 AVERAGE	1969			
	1000 ACRES				1000 ACRES				
COMMON	1.6	1.2	100.00	1.0	1,795.5	1,723.0	77.42	1.0	
		1.2		COMMON	8.9				
				SPANISH		1.0	.04	1.1	
				DENTA		17.0	.76	1.0	
				EVERGREEN	33.4	59.0	2.65	1.0	
				GOLDTOP	7.9	25.5	1.14	1.0	
				HUBAM	24.1	400.0	17.97	1.0	
				MADRID	918.7				
				ALL OTHERS	86.7				
TOTAL				TOTAL		2,225.5			
SOUTHERN					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	
	1962-66 AVERAGE	1969			1962-66 AVERAGE	1969			
	1000 ACRES				1000 ACRES				
COMMON	65.3	10.8	5.42	1.0	244.5	338.0	93.62	1.0	
EVERGREEN	16.5	15.0	7.53	1.0				1.0	
FLORANA	40.0	12.3	6.17	.9	.4	1.5	.41	1.0	
HURAM	243.5	122.9	61.69	.9	119.2	14.5	4.01	1.0	
ISRAEL	5.0	20.1	10.09	1.1	9.1	6.5	1.80	1.0	
MADRID	28.3	11.0	5.52	1.1	4.6	.5	.13		
ALL OTHERS	.2	7.1	3.56						
TOTAL				TOTAL		361.0			

SWEET CLOVER Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	A C R E A G E		T O T A L		S T A T E S	
	1962-66	1969	ACREAGE	EXPECTED REPORTING RECOMMENDED		
	AVERAGE		PERCENT	TREND	NO.	NO.
COMMON	2,106.9	2,073.0	74.38	1.0	24	38
MADRID	956.1	417.5	14.98	1.0	15	18
HUBAM	386.8	162.9	5.84	1.0	14	20
GOLDTOP	8.3	60.5	2.17	1.0	6	8
EVERGREEN	49.9	32.0	1.14	1.0	6	9
ISRAEL	5.0	20.1	.72	1.1	3	4
FLORANA	40.0	12.3	.44	.9	3	3
ALL OTHERS	91.5	7.6	.27			
DENTA	.4	1.0	.03	1.1	2	2
SPANISH	8.9		.03	1.0	1	1
TOTAL		2,786.9				

CRIMSON CLOVER Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
COMMON		10.0		10.0			.5						20.5
TOTAL		10.0		10.0			.5						20.5

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
COMMON							1.0						1.0
TOTAL							1.0						1.0

CRIMSON CLOVER Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS
1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
ALLEN				2.0										2.0
AUBURN	8.0		.1	2.0		7.8				.2		1.0		19.1
AUTAUGA	100.0	.5	.1	1.0		5.0	1.0			.6		55.0		163.2
CHIEF				1.0		1.5	8.0				.8			11.3
COMMON	30.0			40.0	3.0	15.0	1.0	45.0			25.0		70.0	229.0
DIXIE	7.0	80.0	.2	54.0		12.0	1.0	5.0	2.0	.3	.7	8.0		170.2
FRONTIER		.5					9.0							9.5
TALLADEGA	7.0	7.5	.2			14.0				.1		17.0		24.3
ALL OTHERS										8.8				30.3
TOTAL	152.0	88.5	.6	100.0	3.0	55.3	20.0	50.0	2.0	10.0	26.5	81.0	70.0	658.9

WESTERN

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
COMMON		55.0						10.0				65.0
DIXIE		60.0						6.0				66.0
TOTAL		115.0						16.0				131.0

CRIMSON CLOVER

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH EASTERN				NORTH CENTRAL			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969			1962-66 AVERAGE	1969		
	1000 ACRES				1000 ACRES			
COMMON	13.5	20.5	100.00	1.0				
					.3	1.0	100.00	1.0
	TOTAL	20.5						
					TOTAL			1.0

VARIETY	SOUTHERN				WESTERN			
	ACREAGE		PERCENT OF TOTAL ACREAGE	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969			1962-66 AVERAGE	1969		
	1000 ACRES				1000 ACRES			
ALLEN	1.1	2.0	.30	COMMON DIXIE	107.1	65.0	49.61	1.0
AUBURN	24.4	19.1	2.89		16.2	66.0	50.38	1.1
AUTAUGA	169.1	163.2	24.76		TOTAL	131.0		
CHIEF	4.8	11.3	1.71					
COMMON	483.1	229.0	34.75					
DIXIE	382.6	170.2	25.83					
FRONTIER		9.5	1.44		1.1			
TALLADEGA	39.8	24.3	3.68		1.0			
ALL OTHERS	152.6	30.3	4.59					
TOTAL		658.9						

CRIMSON CLOVER Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	A C R E A G E		T O T A L		E X P E C T E D R E P O R T I N G R E C O M M E N D E D		S T A T E S	
	1962-66	AVERAGE	1969	ACREAGE	PERCENT	TREND	NO.	NO.
COMMON	603.7	315.5	38.88	1.0	14	18		
DIXIE	399.1	236.2	29.11	1.0	13	14		
AUTAUGA	169.1	163.2	20.11	1.0	8	8		
ALL OTHERS	152.8	30.3	3.73					
TALLADEGA	39.8	24.3	2.99	1.0	4	4		
AUBURN	24.4	19.1	2.35	1.0	6	8		
CHIEF	4.8	11.3	1.39	1.1	4	5		
FRONTIER		9.5	1.17	1.1	2	2		
ALLEN	1.1	2.0	.24	1.0	1	1		
TOTAL		811.4						

VETCH Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
HAIRY	.4	5.0		7.5	.5	.1	2.0			.1			15.6
TOTAL	.4	5.0		7.5	.5	.1	2.0			.1			15.6

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
COMMON													3.0
HAIRY	1.5	1.0		25.0	5.0		20.0	5.0	.3	2.0	.1	.1	57.9
MADISON								30.0	.1	1.0	.1	.1	30.2
CICER MILK VETCH		.1									.1	.1	.1
ALL OTHERS													.1
TOTAL	1.5	1.1		25.0	5.0		20.0	35.0	.4	3.0	.3		91.3

VETCH Table 1 (Cont.)

ACRFAGES BY VARIETIES - BY STATES AND REGIONS

SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
COMMON	50.0	250.0	.2	1.0	6.0	30.0	10.0	4.6	750.0	7.5	20.0	7.0		44.6
HAIRY			.2	9.0	10.0	50.0						200.0		1,361.3
LANA												50.0		50.0
WARRIOR	2.5			.5						.2				3.2
WILLAMETTE				4.0						.1				4.1
WOOLY POD			.2											4.2
MONANTHA			.1									4.0		4.2
ALL OTHERS	15.5			.5		55.0								.1
TOTAL	68.0	250.0	.7	15.0	16.0	135.0	10.0	5.0	750.0	7.8	20.0	261.0		1,538.5

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
COMMON		20.0							.1			20.1
HAIRY		2.0	2.0						.1	45.0		65.1
LANA		40.0										40.0
MADISON			.5									.5
PURPLE		90.0										90.0
WILLAMETTE								15.0				15.0
CICFR MILK VETCH											1.0	1.0
TOTAL		152.0	2.5				1.0	30.0	.2	45.0	1.0	231.7

ACCREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES					1000 ACRES			
COMMON	4.9				COMMON	7.8	3.0	3.28	1.0
HAIRY	11.1	15.6	100.00	1.0	HAIRY	273.2	57.9	63.41	1.0
					MADISON	34.2	30.2	33.07	1.0
					CICER MILK VETCH		.1	.11	1.0
TOTAL		15.6			ALL OTHERS		.1	.11	
					TOTAL		91.3		
SOUTHERN					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES					1000 ACRES			
COMMON	85.8	44.6	2.89	.9	COMMON	20.5	20.1	8.67	1.0
HAIRY	963.2	1,361.3	88.48	.9	HAIRY	83.3	65.1	28.09	1.0
LANA	25.7	50.0	3.25	1.0	LANA	12.4	40.0	17.26	1.1
WARRIOR	13.8	3.2	.20	.9	MADISON	.4	.5	.21	1.0
WILLAMETTE	102.3	4.1	.26	1.1	PURPLE	98.0	90.0	38.84	.9
WOOLY POD	2.9	4.2	.27	1.0	WILLAMETTE	23.0	15.0	6.47	1.0
MONANTHA		.1	*	1.0	WOOLY POD				1.1
ALL OTHERS	39.4	71.0	4.61		CICER MILK VETCH		1.0	.43	1.2
TOTAL		1,538.5			TOTAL		231.7		

VETCH Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	A C R E A G E		1969	T O T A L		E X P E C T E D R E P O R T I N G		S T A T E S	
	1962-66	AVERAGE		ACREAGE	T R E N D	NO.	NO.		
								PERCENT	
HAIRY	1,330.8		1,499.9	79.90	1.0	33	40		
LANA	38.1		90.0	4.79	1.1	2	2		
PURPLE	98.0		90.0	4.79	.9	1	1		
ALL OTHERS	39.4		71.1	3.78					
COMMON	119.0		67.7	3.60	1.0	10	14		
MADISON	34.6		30.7	1.63	1.0	4	6		
WILLAMETTE	125.3		19.1	1.01	1.0	3	4		
WOOLY POD	2.9		4.2	.22	1.0	3	3		
WARRIOR	13.8		3.2	.17	.9	3	4		
CICER MILK VETCH			1.1	.05	1.1	2	3		
MONANTHA			.1	*	1.0	1	1		
TOTAL			1,877.1						

TREFOIL Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS
1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	N.VA.	TOTAL
COMMON	.3		.5	.3	.1	.3	.9	40.0	20.0	.1	40.0	3.0	105.1 ^{.9}
EMPIRE							.5						105.1
GRANGER							.5						.5
IMPORTED	.3		.3				.3	40.0	35.0				75.6
MANSEFIELD	.9	1.0	1.0	.1	.1	.5	.5	10.0	6.0	.1	20.0	2.5	41.0
VIKING			.3	.1	.1	.5	1.2	110.0	55.0	.1	10.0	2.8	182.0
ALL OTHERS				.1									.1
TOTAL	1.5	1.0	2.1	.5	.3	1.3	3.9	200.0	116.0	.3	70.0	8.3	405.2

NORTH CENTRAL

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
COMMON	1.0							.7		40.0			41.7
EMPIRE	29.0	5.0	300.0		5.0	20.0	9.0	9.5		77.0	.5	4.0	459.0
GRANGER										5.0			5.0
IMPORTED		.2						.2		140.0			140.4
MANSEFIELD										10.0			10.0
VIKING	2.0	.2			35.0			.1		100.0			137.3
LEO											.1		.1
DAWN							1.0			3.0			4.0
TOTAL	32.0	5.4	300.0		40.0	20.0	10.0	10.5		375.0	.6	4.0	797.5

TREFOIL

Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS														
1000 ACRES														
VARIETY	ALA.	ARK.	FLA.	Ga.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
COMMON					15.0									15.0
DOUGLAS								.1						.1
EMPIRE					3.0					.1				3.1
GRANGER					3.0			.1						3.1
VIKING					2.0									2.0
TOTAL					23.0			.2		.1				23.3

VARIETY	1000 ACRES										WESTERN					TOTAL
	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.					
BFAVER								3.0		10.0		13.0				
CASCADE		5.0				.5		3.0		10.0		18.5				
COMMON		400.0						1.0				401.0				
DOUGLAS								9.0				8.0				
EMPIRE		5.0	.6		1.5	.2		1.0				8.3				
GRANGER			.7			.5		7.0		5.0		13.2				
IMPORTED								1.0				1.0				
MANSFIELD		1.0	.6									1.6				
VIKING		1.0	.6									1.7				
TANA					.1	.1						.2				
LOS BANOS		1.0										1.0				
VEGA		.5										.5				
ALL OTHERS	.2					.1						.3				
TOTAL	.2	413.5	2.5		1.6	1.5		24.0		25.0		468.3				

TREFOIL Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE		PERCENT OF	EXPECTED TEND	VARIETY	ACREAGE		PERCENT OF	EXPECTED TEND
	1962-66 AVERAGE	1969	TOTAL ACREAGE			1962-66 AVERAGE	1969	TOTAL ACREAGE	
	1000 ACRES					1000 ACRES			
CASCADE	.1			1.0	COMMON	192.9	41.7	5.22	1.0
COMMON	185.6	.9	.22	1.0	EMPIRE	261.8	459.0	57.55	1.1
EMPIRE	170.3	105.1	25.93	1.0	GRANGER	27.5	5.0	.62	1.0
GRANGER	.2	.5	.12	1.0	IMPORTED	34.1	140.4	17.60	1.0
IMPORTED	39.1	75.6	18.65	1.0	MANSFIELD	10.0	10.0	1.25	1.0
MANSFIELD	27.4	41.0	10.11	1.0	VIKING	70.5	137.3	17.21	1.1
VIKING	244.7	182.0	44.91	1.0	LEO		.1	.01	1.1
LEO				1.1	DAMN		4.0	.50	1.2
ALL OTHERS		.1	.02						
TOTAL		405.2			TOTAL		797.5		

SOUTHERN					WESTERN				
VARIETY	ACREAGE		PERCENT OF	EXPECTED TEND	VARIETY	ACREAGE		PERCENT OF	EXPECTED TEND
	1962-66 AVERAGE	1969	TOTAL ACREAGE			1962-66 AVERAGE	1969	TOTAL ACREAGE	
	1000 ACRES					1000 ACRES			
COMMON	4.0	15.0	64.37	.9	BEAVER	8.7	13.0	2.77	1.0
DOUGLAS	.2	.1	.42	1.0	CASCADE	16.0	18.5	3.95	1.0
EMPIRE	1.4	3.1	13.30	1.0	COMMON	402.9	401.0	85.62	1.0
GRANGER	.8	3.1	13.30	1.0	DOUGLAS	10.1	8.0	1.70	1.0
VIKING		2.0	8.58	.9	EMPIRE	7.5	8.3	1.77	1.0
		23.3			GRANGER	7.7	13.2	2.81	1.0
TOTAL					IMPORTED	.3	1.0	.21	1.0
					MANSFIELD	.7	1.6	.34	1.0
					VIKING	.9	1.7	.36	1.0
					TANA	.1	.2	.04	1.1
					LOS BANOS		1.0	.21	1.0
					VEGA		.5	.10	1.0
					ALL OTHERS		.3	.06	
					TOTAL		468.3		

TREFOIL Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	1962-66		1969	TOTAL		EXPECTED REPORTING RECOMMENDED		
	AVERAGE	1969		ACREAGE	PERCENT	TREND	NO.	NO.
EMPIRE	441.0	575.5	33.96	1.0	28	33		
COMMON	785.4	458.6	27.06	1.0	7	12		
VIKING	316.1	323.0	19.06	1.0	21	22		
IMPORTED	73.5	217.0	12.80	1.0	8	11		
MANSFIELD	28.1	52.6	3.10	1.0	13	15		
GRANGER	36.2	21.8	1.28	1.0	8	10		
CASCADE	16.1	18.5	1.09	1.0	5	5		
BEAVER	8.7	13.0	.76	1.0	2	2		
DOUGLAS	10.3	8.1	.47	1.0	2	2		
DAWN		4.0	.23	1.2	3	3		
LOS BANOS		1.0	.05	1.0	1	1		
VEGA		.5	.03	1.0	1	1		
ALL OTHERS		.4	.02					
TANA	.1	.2	.01	1.1	2	2		
LEO		.1	*	1.1	3	3		
TOTAL		1,694.3						

BROMEGRASS Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

1000 ACRES

NORTH EASTERN

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
ACHENBACH	.1				.5								.1
COMMON NORTHERN			1.5	3.3			30.0	70.0	32.0				.5
COMMON SOUTHERN			1.8	1.5	1.5	2.5	10.0	10.0	28.0	.8	10.0		146.8
LINCOLN	.1											5.0	61.2
MANCHAR			1.5	.2	1.0	.3	2.0	70.0	20.0	.3	10.0	1.0	.3
SARATOGA	.4					3.0							109.4
TOTAL	.6		4.8	5.0	3.0	5.8	42.0	150.0	80.0	1.1	20.0	6.0	318.3

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
ACHENBACH	5.0								.3	40.0	15.0		2,035.3
COMMON NORTHERN	12.0	20.0		1,800.0	25.0	100.0	175.0	2.0	425.0	315.0	130.0	960.0	1,674.0
COMMON SOUTHERN	105.0				175.0	300.0	2.0		25.0		100.0	40.0	1,073.0
ELSBERRY			50.0						.2		5.0		2.0
FISCHER									.2		20.0		55.2
HOMESTEADER									.2		10.0		20.2
LANCASTER							3.0	8.0		5.0			26.0
LINCOLN	101.0		475.0			800.0	20.0	65.0	325.0	10.0	260.0	380.0	2,436.0
LYON								2.0	.2				2.2
MANCHAR									.5				.5
SAC									.2		1.0	20.0	21.2
SARATOGA				80.0			7.0			20.0			27.0
SOUTHLAND							140.0			10.0			230.0
TAYLOR	77.0		3.0										80.0
RLAIR			3.0										3.0
ALL OTHERS								10.0					10.0
TOTAL	300.0	20.0	531.0	1,880.0	200.0	1,200.0	347.0	100.0	776.6	400.0	541.0	1,400.0	7,695.6

BROMEGRASS Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS

1000 ACRES

SOUTHERN

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
ACHENBACH					20.0							1.0		21.0
LINCOLN					5.0									5.0
SOUTHLAND		20.0			20.0				5.5			1.0		46.5
TOTAL		20.0			45.0				5.5			2.0		72.5

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
ACHENBACH			50.0								.1	52.1
COMMON NORTHERN			10.0	30.0	30.0	2.0			2.3			72.3
COMMON SOUTHERN			14.0		20.0				68.0		50.0	152.0
LANCASTER			5.0								20.0	25.0
LINCOLN		15.0	40.0		15.0	1.0		1.0	.5	10.0	26.0	108.5
LYON			25.0			1.0						26.0
MANCHAR		15.0	5.0	42.0	6.0	5.0		7.0	6.0	190.0	12.0	288.0
SARATOGA		.5	1.0							3.5		5.0
REGAR	.2	.1		1.0		.5			.2		.1	1.9
ALL OTHERS						.5						.7
TOTAL	.2	30.6	150.0	73.0	71.0	10.0		8.0	77.0	203.5	108.2	731.5

BROMEGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES					1000 ACRES			
ACHENBACH	1.2	.1	.03	.9	ACHENBACH	1,806.1	2,035.3	26.44	1.1
COMMON NORTHERN	22.0	.5	.15	1.0	COMMON NORTHERN	2,094.4	1,674.0	21.75	1.0
COMMON SOUTHERN	88.4	146.8	46.12	1.0	COMMON SOUTHERN	1,908.2	1,073.0	13.94	1.0
LANCASTER	.3				ELSBERRY	40.5	2.0	.02	1.0
LINCOLN	195.5	61.2	19.22	1.0	FISCHER	103.3	55.2	.71	.9
MANCHAR	.2	.3	.09	1.0	HOMESTEADER	94.6	20.2	.26	.9
SAC					LANCASTER	43.0	26.0	.33	1.0
SARATOGA	74.9	109.4	34.37	1.0	LINCOLN	2,518.6	2,436.0	31.65	1.0
TOTAL		318.3			LYON	50.0	2.2	.02	1.0
					MANCHAR	18.1	.5	*	1.0
					SAC	.5	21.2	.27	1.1
					SARATOGA	9.8	27.0	.35	1.0
					SOUTHLAND	120.2	230.0	2.98	1.0
					BAYLOR		80.0	1.04	1.2
					BLAIR		3.0	.03	1.1
					ALL OTHERS	91.2	10.0	.13	
					TOTAL		7,695.6		
SOUTHERN					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES					1000 ACRES			
ACHENBACH	16.0	21.0	28.96	1.1	ACHENBACH	34.3	52.1	7.12	1.0
COMMON SOUTHERN	6.6				COMMON NORTHERN	78.3	72.3	9.88	1.0
LINCOLN	13.0	5.0	6.89	.9	COMMON SOUTHERN	126.4	152.0	20.77	1.0
SOUTHLAND	28.6	46.5	64.13	1.1	LANCASTER	6.5	25.0	3.41	1.0
TOTAL		72.5			LINCOLN	90.0	108.5	14.83	1.0
					LYON	27.2	26.0	3.55	1.0
					MANCHAR	351.2	288.0	39.37	1.1
					SAC	.1			1.0
					SARATOGA	14.1	5.0	.68	.9
					SOUTHLAND				1.0
					REGAR		1.9	.26	1.1
					ALL OTHERS	14.4	.7	.09	
					TOTAL		731.5		

BROMEGRASS Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	1962-66		1969	TOTAL		EXPECTED REPORTING RECOMMENDED		S T A T E S	
	AVERAGE	PERCENT		ACREAGE	TREND	NO.	NO.	NO.	
LINCOLN	2,817.1	29.60	2,610.7	1.0	28	33			
ACHENBACH	1,857.6	23.91	2,108.5	1.0	14	16			
COMMON NORTHERN	2,194.7	19.81	1,746.8	1.0	13	19			
COMMON SOUTHERN	2,129.6	15.55	1,371.8	1.0	18	30			
MANCHAR	369.5	3.27	288.8	1.0	11	11			
SOUTHLAND	148.8	3.13	276.5	1.0	11	11			
SARATOGA	98.8	1.60	141.4	1.0	16	17			
BAYLOR		.90	80.0	1.2	3	4			
FISCHER	103.3	.62	55.2	.9	3	6			
LANCASTER	49.8	.57	51.0	1.0	7	7			
LYON	77.2	.32	28.2	1.0	5	5			
SAC	.6	.24	21.2	1.1	6	6			
HOMESTEADER	94.6	.22	20.2	.9	2	3			
ALL OTHERS	105.6	.12	10.7						
BLAIR		.03	3.0	1.1	1	1			
ELSBERRY	40.5	.02	2.0	1.0	1	1			
REGAR		.02	1.9	1.1	5	5			
TOTAL			8,817.9						

ORCHARDGRASS Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	P.I.	VT.	W.VA.	TOTAL
COMMON	.2	10.0	1.3	130.0	.5	2.5	40.0	12.0	45.0	.4			241.9
PENNLATE	.5	2.0	2.8	6.0	.5	.8	5.0	15.0	65.0	.4	3.0	3.0	104.0
POTOMAC		.5					15.0		.1			6.0	21.6
S-37		1.0					11.0	2.0	15.0	.5			29.5
PENNMEAD	.1	1.0			.1			1.0	5.0		.5	1.0	8.7
ALL OTHERS				24.0							1.5		25.5
TOTAL	.8	14.5	4.1	160.0	1.1	3.3	71.0	30.0	130.1	1.3	5.0	10.0	431.2

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MD.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
ROONE	1.0						10.0						11.0
COMMON	407.0	60.0	325.0		10.0	15.0	350.0	24.0		400.0	.4	90.0	1,681.4
DANISH	50.0									20.0		27.9	77.9
FRODE			35.0							2.0		10.0	65.0
LATAR										2.0			2.0
PENNLATE	2.0						7.0			130.0			132.0
POTOMAC	25.0	20.0	5.0				7.0	10.0		30.0	.2	2.0	89.0
STERLING	2.0		75.0									.1	94.3
S-37	3.0									33.0			36.0
PENNMEAD										4.0			4.0
NAPIER	10.0		5.0							1.0			16.0
DAYTON			5.0				60.0						5.0
ALL OTHERS										10.0		20.0	90.0
TOTAL	500.0	80.0	450.0		10.0	15.0	434.0	34.0		630.0	.6	150.0	2,303.6

ORCHARDGRASS Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
BOONE	2.0				50.0					.1	20.0			72.1
COMMON	22.0	20.0		40.0	600.0			220.0		.3	300.0	1.0	427.0	1,630.3
DANISH		100.0			70.0			180.0			10.0		75.0	435.0
POTOMAC	2.0	10.0						35.0		.5	200.0		8.0	255.5
ALL OTHERS											20.0			20.0
TOTAL	26.0	130.0		40.0	720.0			435.0		.9	550.0	1.0	510.0	2,412.9

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYD.	TOTAL
AKAROA		200.0				3.0		9.0		20.0		232.0
ROONF								2.0				2.0
COMMON		350.0	140.0	20.0	15.0	14.0		48.0	145.8	40.0	50.0	822.8
DANISH								8.0		10.0		18.0
FRODE								1.0				1.0
LATAR	.2	40.0	9.0	60.0	6.0	10.0		18.0	5.0	110.0	31.0	289.2
MASS. HARDY								1.0				1.0
PENNLATE					.5			2.0		10.0		12.5
POTOMAC		18.0	1.0		7.0	1.0		45.0		60.0	.1	132.1
SANDIA							.2					.2
STERLING								2.0				2.0
S-143								10.0				10.0
CHINOOK					8.0							8.0
PENNMEAD								.5				.5
NAPIER									.2	10.0		10.2
BRAGE				.5			.4	.5				.9
POMAR	.2											.5
ALL OTHERS	.4	608.0	150.0	80.5	36.5	30.0	.6	147.0	151.0	260.0	81.1	1,545.1
TOTAL												2.2

ORCHARDGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH EASTERN				NORTH CENTRAL			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TEND	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TEND
	1962-66 AVERAGE	1969			1962-66 AVERAGE	1969		
	1000 ACRES				1000 ACRES			
COMMON	307.0	241.9	56.09	1.0	1,648.9	1,681.4	.47	1.1
DANISH	.7				19.0	77.9	72.99	1.0
MASS. HARDY	1.4				9.3	65.0	3.38	1.0
PENNLATE	23.5	104.0	24.11	1.0			2.82	1.0
POTOMAC	9.3	21.6	5.00	1.1	1.7	2.0	.08	1.0
S-37	87.7	29.5	6.84	1.0	27.4	132.0	5.73	1.2
PENNMEAD		8.7	2.01	1.1	23.7	89.0	3.86	1.1
ALL OTHERS		25.5	5.91		8.3	94.3	4.09	1.1
TOTAL		431.2			76.1	36.0	1.56	1.1
						4.0	.17	1.1
							.69	1.2
						5.0	.21	1.1
					11.3	90.0	3.90	
					TOTAL		2,303.6	

VARIETY	SOUTHERN				WESTERN			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TEND	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TEND
	1962-66 AVERAGE	1969			1962-66 AVERAGE	1969		
	1000 ACRES				1000 ACRES			
BOONE	7.3	72.1	2.98	1.1	219.4	232.0	15.01	1.0
COMMON	1,468.4	1,630.3	67.56	1.0	.2	2.0	.12	1.0
DANISH	320.5	435.0	18.02	1.0	800.3	822.8	53.25	1.0
KY. SELECT	3.3				12.6	18.0	1.16	1.0
POTOMAC	28.5	255.5	10.58	1.1	.2	1.0	.06	1.0
ALL OTHERS		20.0	.82		82.3	289.2	18.71	1.1
TOTAL		2,412.9			.2	1.0	.06	1.0
					2.7	12.5	.80	1.0
					69.0	132.1	8.55	1.0
					1.0	.2	.01	1.0
					.2	2.0	.12	1.0
					67.4	10.0	.64	1.0
							.51	1.0
						.5	.03	1.0
						10.2	.66	1.1
						.9	.05	1.0
						2.2	.03	1.1
					TOTAL		1,545.1	

ORCHARDGRASS Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	A C R E A G E		TOTAL ACREAGE	S T A T E S		
	1962-66	1969		EXPECTED REPORTING		RECOMMENDED
	AVERAGE			TREND	NO.	
COMMON	4,224.6	4,376.4	65.39	1.0	38	55
DANISH	352.8	530.9	7.93	1.0	9	17
POTOMAC	130.5	498.2	7.44	1.1	23	27
LATAR	84.0	291.2	4.35	1.1	11	12
PENNLATE	53.6	248.5	3.71	1.0	19	21
AKAROA	219.4	232.0	3.46	1.0	6	7
ALL OTHERS	11.3	137.7	2.05			
STERLING	8.5	96.3	1.43	1.1	7	9
BOONE	7.5	85.1	1.27	1.1	7	9
FRODE	9.5	66.0	.98	1.0	4	7
S-37	163.8	65.5	.97	1.0	7	13
NAPIER		26.2	.39	1.1	5	7
PENNMEAD		13.2	.19	1.1	10	11
S-143	67.4	10.0	.14	1.0	3	4
CHINOOK		8.0	.12	1.0	1	1
DAYTON		5.0	.07	1.1	1	1
MASS. HARDY		1.0	.01	1.0	1	1
BRAGE	1.6	.9	.01	1.0	2	2
KY. SELECT	3.3		.01			
SANDIA	1.0	.2	*	1.0	1	1
POMAR		.5	*	1.1	1	1

TOTAL 6,692.8

TIMOTHY Table 1

ACRFAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
CLAIR				.5									.5
CLIMAX	9.0		20.0	5.0	20.0	40.0	6.0	1,000.0	250.0	2.0	40.0	3.0	1,395.0
COMMON	21.0	15.0	100.0	264.5	40.0	110.0	49.0	1,350.0	750.0	10.0			2,708.5
ESSEX			1.0			1.5	1.0	150.0	.1		2.0	.3	155.9
ALL OTHERS							4.0				118.0		122.0
TOTAL	30.0	15.0	121.0	270.0	60.0	151.5	59.0	2,500.0	1,000.1	12.0	160.0	3.3	4,381.9

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
CLAIR	5.0						1.5			25.0			31.5
CLIMAX		10.0	25.0		25.0	80.0	3.5		.2	15.0	.3	500.0	659.0
COMMON	1,595.0	300.0	225.0		225.0	414.0	160.0			1,950.0	.3	499.0	5,368.3
ESSEX						1.0				2.0			3.0
ITASCA						3.0						1.0	4.0
LORAIN										8.0		200.0	8.0
ALL OTHERS						2.0							202.0
TOTAL	1,600.0	310.0	250.0		250.0	500.0	165.0		.2	2,000.0	.6	1,200.0	6,275.8

TIMOTHY Table 1(Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
CLAIR					250.0						60.0		7.0	317.0
COMMON		5.0			100.0						80.0		18.0	203.0
ALL OTHERS											10.0			10.0
TOTAL		5.0			350.0						150.0		25.0	530.0

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLD.	IDAHO	MCNT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
CLAIR										10.0		10.0
CLIMAX			5.0			.5		1.0		100.0	.5	107.0
COMMON		50.0	95.0		350.0	4.5	1.0		3.0		200.0	703.5
DRUMMOND					1.0			1.0				1.0
HOPKINS												1.0
TOTAL		50.0	100.0		351.0	5.0	1.0	2.0	3.0	110.0	200.5	822.5

TIMOTHY Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE		PERCENT OF TOTAL	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES					1000 ACRES			
CLAIR	.5	.5	.01	1.1	CLAIR	3.3	31.5	.50	1.0
CLIMAX	530.3	1,395.0	31.83	1.1	CLIMAX	184.3	659.0	10.50	1.1
COMMON	2,901.7	2,708.5	61.81	1.0	COMMON	5,826.8	5,368.3	85.54	1.0
ESSEX	25.8	155.9	3.55	1.0	ESSEX	.6	3.0	.04	1.0
ALL OTHERS		122.0	2.78		ITASCA	.5	4.0	.06	1.0
TOTAL		4,381.9			LORAIN	39.8	8.0	.12	.9
					ALL OTHERS	244.2	202.0	3.21	
					TOTAL		6,275.8		
SOUTHERN					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES					1000 ACRES			
CLAIR	40.0	317.0	59.81	1.2	CLAIR		10.0	1.21	1.1
COMMON	124.6	203.0	38.30	1.0	CLIMAX	48.6	107.0	13.00	1.0
ALL OTHERS		10.0	1.88		COMMON	458.2	703.5	85.53	1.0
TOTAL		530.0			DRUMMOND		1.0	.12	.9
					ESSEX				1.0
					ITASCA				1.0
					MILTON				1.0
					HOPKINS		1.0	.12	1.0
					TOTAL		822.5		

TIMOTHY Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	A C R E A G E		1969	TOTAL ACREAGE PERCENT	S T A T E S		
	1962-66 AVERAGE	EXPECTED TREND			REPORTING		
					NO.	NO.	
COMMON	9,311.3	8,983.3	74.79	1.0	30	41	
CLIMAX	763.2	2,161.0	17.99	1.0	25	28	
CLAIR	43.8	359.0	2.98	1.1	8	10	
ALL OTHERS	244.2	334.0	2.78				
ESSEX	26.4	158.9	1.32	1.0	11	13	
LORAIN	39.8	8.0	.06	.9	1	2	
ITASCA	.5	4.0	.03	1.0	4	6	
DRUMMOND		1.0	*	.9	1	1	
MILTON			*	1.0	2	2	
HOPKINS		1.0	*	1.0	1	1	
TOTAL		12,010.2					

TALL FESCUE Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS													
1000 ACRES													
VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
ALTA				9.0									9.0
KY. 31		50.0		125.0					.1	.1		15.0	190.2
KENWELL		5.0		1.0					.1				6.1
TOTAL		55.0		135.0					.2	.1		15.0	205.3

NORTH CENTRAL													
1000 ACRES													
VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
ALTA	90.0		12.0				95.0			25.0			222.0
KY. 31	905.0	100.0	13.0	500.0		1,950.0	1.0			160.0			3,629.0
KENWELL	5.0	1.0				5.0				20.0			31.0
FAWN		2.0				3.0				10.0			15.0
ALL OTHERS										10.0			10.0
TOTAL	1,000.0	103.0	25.0	500.0		2,053.0	1.0			225.0			3,907.0

TALL FESCUE Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
ALTA	25.0					15.0	7.0	25.0		95.0	1.0	1.0	5.0	374.4
KY. 31	738.0	100.0	.4	200.0		38.0	275.0	310.0	9.5	200.5	1,200.0	10.0	105.0	7,394.4
KENWELL	1.0	10.0	.4	408.0	4,000.0		100.0			.4	5.0			216.9
FAWN				.5	100.0		3.0							3.0
KENMONT							10.0							10.0
GOAR	6.0					5.0	5.0			.1	1.0			11.1
ALL OTHERS				.5		5.0		175.0						181.5
TOTAL	770.0	110.0	.8	609.0	4,100.0	58.0	400.0	510.0	9.5	296.0	1,207.0	11.0	110.0	8,191.3

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
ALTA												
KY. 31	14.0	100.0	10.0	100.0	15.0	35.0	1.0	100.0	3.0	50.0	5.0	433.0
KENWELL		20.0	10.0					.5			5.0	35.5
FAWN		1.0						10.0			.1	.1
KENMONT					.8							11.0
GOAR	5.0	130.0				5.0						.8
TOTAL	19.0	251.0	20.0	100.0	15.8	40.0	1.0	110.5	3.0	50.0	10.1	620.4

TALL FESCUE Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE	PERCENT OF TOTAL ACREAGE	1962-66 AVERAGE	1969	VARIETY	ACREAGE	PERCENT OF TOTAL ACREAGE	1962-66 AVERAGE	1969
	1000 ACRES					1000 ACRES			
ALTA	9.0	4.38	.9		ALTA	222.0	5.68	222.0	
KY. 31	190.2	92.64	1.0		KY. 31	3,629.0	92.88	3,629.0	
KENWELL	6.1	2.97	1.1		KENWELL	31.0	.79	31.0	
					FAWN	15.0	.38	15.0	
					ALL OTHERS	10.0	.25	10.0	
TOTAL	205.3				TOTAL	3,907.0			
SOUTHERN					WESTERN				
VARIETY	ACREAGE	PERCENT OF TOTAL ACREAGE	1962-66 AVERAGE	1969	VARIETY	ACREAGE	PERCENT OF TOTAL ACREAGE	1962-66 AVERAGE	1969
	1000 ACRES					1000 ACRES			
ALTA	374.4	4.57	1.0		ALTA	433.0	69.79	433.0	
KY. 31	7,394.4	90.27	1.1		KY. 31	35.5	5.72	35.5	
KENWELL	216.9	2.64	1.1		KENWELL	.1	.01	.1	
FAWN	3.0	.03	1.1		FAWN	11.0	1.77	11.0	
KENMONT	10.0	.12	.9		KENMONT	.8	.12	.8	
GOAR	11.1	.13	1.1		GOAR	140.0	22.56	140.0	
ALL OTHERS	181.5	2.21			ALL OTHERS	620.4		620.4	
TOTAL	8,191.3				TOTAL				

TOTAL

TALL FESCUE Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	1962-66		1969	TOTAL		EXPECTED TREND		REPORTING		RECOMMENDED	
	AVERAGE	PERCENT		ACREAGE	PERCENT	NO.	TEND	NO.	NO.		
KY. 31			11,249.1	87.04		1.1		29		34	
ALTA			1,038.4	8.03		1.0		26		30	
KENWELL			254.1	1.96		1.1		15		19	
ALL OTHERS			191.5	1.48							
GOAR			151.1	1.16		1.1		6		9	
FAWN			29.0	.22		1.1		7		7	
KENMONT			10.8	.08		1.0		2		2	
TOTAL			12,924.0								

WHEATGRASS Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
STANDARD CRESTED													
NORDAN								330.0	100.0		110.0		540.0
STIERIAN								16.0	300.0		30.0		346.0
FAIRWAY CRESTED											.2		.2
INTERMEDIATE COMMON				1.0				160.0	10.0		150.0		150.0
GREENAR											1.0		172.0
NEBRASKA 50									.5		.5		.5
AMUR								80.0	.5				80.5
GAHE											50.0		50.0
PUBESCENT									.5				.5
MANDAN 759									.2				.2
TALL WHEATGRASS									.3		.3		.6
ALKAR				15.0				42.5	30.0		.4		87.9
NEBRASKA 98526											.1		.1
WESTERN								16.5					16.5
SLENDER				222.0					30.0		5.0		257.0
ALL OTHERS									50.0		.5		50.5
									.1		.1		.1
TOTAL				230.0				645.0	521.5		348.1		1,752.6

WHEATGRASS Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	G.A.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
LUNA									2.0			30.0		2.0
WESTERN														30.0
TOTAL									2.0			30.0		32.0

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
STANDARD CRESTED												
NORDAN	55.0	100.0	950.0	130.0	500.0	1.0	3.5	210.0	700.0	20.0	100.0	2,766.0
SIRERIAN	1.0	8.0	80.0	50.0	15.0	15.0		15.0	1.0	90.0	42.0	305.5
FAIRWAY CRESTED		2.0	100.0	2.5	4.0	12.0		12.0	1.0	10.0		131.5
INTERMEDIATE COMMON		15.0		3.5	140.0	25.0		25.0	90.0		60.0	333.5
GREENAR	80.0	50.0	30.0	8.0	22.0	1.0		10.0	58.0		50.0	309.0
NEBRASKA 50	90.0	120.0		.4	4.0	3.0		3.0	3.0	60.0	6.0	286.4
AMUR		20.0		.5	10.0	.1		.1			50.0	20.6
DAHE		2.5	1.0	1.5	10.0					15.0	50.0	75.0
PUBESCENT		5.0		1.5	.5					50.0	.5	57.0
TOPAR		7.5	60.0	.5	.5	30.0		30.0	1.0		2.0	59.5
MANDAN 759				1.0		3.0		3.0	1.0	20.0	1.0	93.5
TRIGO		.5										1.0
LUNA		5.0			1.0							.5
TALL WHEATGRASS												6.0
ALKAR	3.0	.5	50.0	1.5	2.0	5.0		5.0	12.0		2.0	74.0
LARGO		5.5	3.0		1.0	1.0		1.0	.3	50.0	.5	62.3
WESTERN		.5					.1					.6
SLENDER		50.0		170.0	2.0	2.0		2.0	1.5		10.0	233.5
WHITMAR		10.0	.5	20.0	7.0	7.0		7.0	.2		.5	38.2
SODAR		2.7	2.7	1.0	5.0	5.0		5.0	.5	35.0	2.0	46.2
JOSE		1.1	1.1	1.5	1.0	1.0		1.0	1.0	3.0	.1	7.7
ALL OTHERS	8.5		1.0		1.0		.5					2.5
		6.5										15.0
TOTAL	11.5	246.5	340.0	1,348.3	393.4	700.0	6.1	329.0	870.5	353.0	326.7	4,925.0

WHEATGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH CENTRAL					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES								
STANDARD CRESTED	569.7	540.0	30.81	.9	STANDARD CRESTED	1,391.8	2,766.0	56.16	1.0
NORDAN	499.9	346.0	19.74	1.1	NORDAN	141.5	305.5	6.20	1.1
SIBERIAN	.1	.2	.01	1.0	SIBERIAN	34.5	131.5	2.67	1.0
FAIRWAY CRESTED	115.4	150.0	8.55	1.0	FAIRWAY CRESTED	142.4	333.5	6.77	1.0
INTERMEDIATE COMMON	89.6	172.0	9.81	.9	INTERMEDIATE COMMON	257.3	309.0	6.27	1.0
GREENAR	.3	.5	.02	.9	GREENAR	220.9	286.4	5.81	1.0
NEBRASKA 50	40.4	80.5	4.59	.9	NEBRASKA 50	14.2	20.6	.41	1.1
AMUR	4.5	50.0	2.85	.9	AMUR	142.8	75.0	1.52	1.1
DAHE	.5	.2	.02	1.1	DAHE	17.1	57.0	1.15	1.1
PUBESCENT	.9	.6	.01	1.0	PUBESCENT	40.1	59.5	1.20	1.0
MANDAN 759	74.1	87.9	5.01	1.0	TOPAR	93.5	1.89	1.89	1.0
TALL WHEATGRASS	5.5	16.5	.94	1.0	MANDAN 759	1.0	.02	1.0	
NEBRASKA 98526	289.5	257.0	14.66	1.0	TRIGO	.5	.01	1.1	
WESTERN	114.2	50.5	2.88	1.0	LUNA	6.0	.12	1.1	
SLENDER	.1	.1	*	1.0	TALL WHEATGRASS	72.0	74.0	1.50	1.0
ALL OTHERS					ALKAR	19.6	62.3	1.26	1.1
TOTAL		1,752.6			LARGO	205.6	.6	.01	1.1
					WESTERN	233.5	4.74	1.0	1.0
					SLENDER	19.5	38.2	.77	1.0
					WHITMAR	39.2	46.2	.93	1.0
					SODAR	4.8	7.7	.15	1.0
					JOSE	12.8	2.5	.05	1.1
					ALL OTHERS	15.0	.30	.30	

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969		
	1000 ACRES			
LUNA		2.0	6.25	1.1
WESTERN	66.0	30.0	93.75	.8
TOTAL		32.0		

WHEATGRASS Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	1962-66		1969	TOTAL		EXPECTED REPORTING RECOMMENDED			
	AVERAGE	PERCENT		ACREAGE	TREND	NO.	NO.		
STANDARC CRESTED	1,961.5	49.27	3,306.0	1.0	13	17			
NORDAN	641.4	9.71	651.5	1.1	13	13			
WESTERN	561.1	7.75	520.5	1.0	10	11			
FAIRWAY CRESTED	257.8	7.20	483.5	1.0	7	7			
INTERMEDIATE COMMON	346.9	7.16	481.0	1.0	13	17			
GREENAR	221.2	4.27	286.9	1.0	9	10			
TALL WHEATGRASS	146.1	2.41	161.9	1.0	11	12			
SIBERIAN	34.6	1.96	131.7	1.0	10	13			
AMUR	147.3	1.86	125.0	1.0	5	6			
NEBRASKA 50	54.6	1.50	101.1	1.0	5	7			
TOPAR	40.1	1.39	93.5	1.0	8	8			
SLENDER	133.7	1.32	88.7	1.0	8	10			
ALKAR	19.6	.93	62.4	1.0	9	9			
PURESCENT	18.0	.89	59.7	1.0	7	7			
GAHE		.85	57.5	1.1	9	10			
WHITMAR	39.2	.68	46.2	1.0	6	6			
NERRASKA 98526	5.5	.24	16.5	1.0	1	1			
ALL OTHERS		.22	15.1						
LUNA		.11	8.0	1.1	3	3			
SODAR	4.8	.11	7.7	1.0	6	6			
JOSE	12.8	.03	2.5	1.1	3	3			
MANDAN 759		.02	1.6	1.0	3	3			
TRIGO		*	.5	1.1	1	1			
LARGO		*	.6	1.1	2	3			
TOTAL			6,709.6						

RYEGRASS Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
ANNUAL		15.0	1.5	20.0	.5	1.0	40.0						78.0
PERENNIAL		15.0		14.0	.1	.5	10.0						39.6
NORLEA		5.0		.5			15.0						20.5
LINN		10.0		.5									10.5
MANHATTAN		1.0											1.0
PELO		10.0											10.0
N.K.100		2.0											2.0
TOTAL		58.0	1.5	35.0	.6	1.5	65.0						161.6

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
ANNUAL	5.0	10.0								35.0			50.0
PERENNIAL	95.0	140.0								8.0			243.0
TOTAL	100.0	150.0								43.0			293.0

RYEGRASS Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS												
SOUTHERN												
1000 ACRES												
VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS
ANNUAL	100.0	700.0	150.0	128.0	5.0	130.0	90.0	25.0	10.0	15.0	30.0	17.0
GULF	10.0	50.0	22.0	1.0		220.0	100.0			.1		165.0
FLA. RUST RESISTANT	5.0		3.0			2.5				.2		
PERENNIAL		5.0			2.0						35.0	5.0
NORLEA							10.0					57.0
MAGNOLIA						.5	200.0					10.0
TETRAPLOID TYPE				1.0		1.5	25.0			.5		2.0
ALL OTHERS												200.5
TOTAL	115.0	755.0	175.0	130.0	7.0	354.5	425.0	25.0	10.0	15.8	65.0	189.0
												50.0
												2,316.3

WESTERN												
1000 ACRES												
VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
ANNUAL		200.0	8.0					100.0		50.0		358.0
GULF								10.0				10.0
PERENNIAL		650.0	2.0				1.5	10.0	1.0	80.0		744.5
NORLEA								6.0				6.0
LINN								30.0				30.0
S-23								3.0				3.0
DECO								6.0				6.0
TETRAPLOID TYPE		6.0						2.0			.1	8.1
TOTAL		856.0	10.0				1.5	167.0	1.0	130.0	.1	1,165.6

RYEGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES	1000 ACRES				1000 ACRES	1000 ACRES		
ANNUAL	59.2	78.0	48.26	1.0	ANNUAL PERENNIAL	29.9	50.0	17.06	1.0
PERENNIAL	15.2	39.6	24.50	1.0		22.5	243.0	82.93	1.0
NORLEA	5.1	20.5	12.68	1.1					
LINN		10.5	6.49	1.2					
MANHATTAN		1.0	.61	1.2					
PELO		10.0	6.18	1.2					
N.K.100		2.0	1.23	1.2	TOTAL		293.0		
TOTAL		161.6							
SOUTHERN					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES	1000 ACRES				1000 ACRES	1000 ACRES		
ANNUAL	791.9	1,440.0	62.16	1.0	ANNUAL GULF PERENNIAL NORLEA LINN S-23 OECD TETRAPLOID TYPE	171.1	358.0	30.71	1.0
GULF	188.7	568.1	24.52	1.1		4.0	10.0	.85	1.1
FLA. RUST RESISTANT		10.7	.46	1.2		798.5	744.5	63.87	1.0
PERENNIAL	35.9	57.0	2.46	.9		1.7	6.0	.51	1.0
NORLEA		10.0	.43	1.0		10.4	30.0	2.57	1.1
MAGNOLIA		200.5	8.65	1.2		5.2	3.0	.25	.9
TETRAPLOID TYPE		29.0	1.25	1.1			6.0	.51	1.1
ALL OTHERS		1.0	.04				8.1	.69	1.1
TOTAL		2,316.3			TOTAL		1,165.6		

RYEGRASS Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	A C R E A G E		1969	TOTAL ACREAGE PERCENT	EXPECTED TREND	S T A T E S	
	1962-66					NO.	NO.
	AVERAGE						
ANNUAL	1,052.1	1,926.0		48.92	1.0	26	29
PERENNIAL	872.1	1,084.1		27.54	1.0	20	26
GULF	192.7	578.1		14.68	1.1	9	9
MAGNOLIA		200.5		5.09	1.2	4	4
LINN	10.4	40.5		1.02	1.1	3	3
TETRAPLOID TYPE		37.1		.94	1.1	7	10
NORLEA	6.8	36.5		.92	1.1	6	7
FLA. RUST RESISTANT		10.7		.27	1.2	4	4
PELO		10.0		.25	1.2	1	1
OECD		6.0		.15	1.1	1	1
S-23	5.2	3.0		.07	.9	1	2
N.K. 100		2.0		.05	1.2	1	1
MANHATTAN		1.0		.02	1.2	1	1
ALL OTHERS		1.0		.02			

ACREAGES BY VARIETIES - BY STATES AND REGIONS

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	P.A.	R.I.	VT.	W.VA.	TOTAL
GERMAN FOXTAIL		2.0		.2						.5			2.7
HUNGARIAN			.5	.1	.1	.9				.5	1.0		3.2
COM. PEARL CATTAIL				.5			.1			.5			1.1
GAHI I							.1						.1
JAP. (BARNYARDGRASS)	.2		2.5		.4	1.8		5.0	10.0		1.0		20.9
TOTAL	.3	2.0	3.0	.8	.5	2.7	.2	5.0	10.0	1.5	2.0		28.0

NORTH CENTRAL

1000 ACRES

[illegible]

MILLET Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
GERMAN FOXTAIL														
WHITE PROSO				1.0					2.0		20.0	15.0	4.0	57.0
BROWNTOP	5.0			55.0		5.0			1.5	.2	2.0	1.0		2.7
DOVE PROSO										25.0				93.0
LEONARD									.5	.5				.5
COM. PEARL CATTAIL		1.0	5.0			17.5	5.0	5.0	.5	25.0		8.5		67.0
GAHI I	25.0	4.0	40.0	106.0		17.5	10.0	35.0		25.0	.1	15.0	3.0	280.6
STARR	5.0	2.0	50.0	48.0		20.0	25.0	33.0		5.0	.1	10.0	2.0	200.1
PEARL NO. 7							10.0					2.0		12.0
JAP. (BARNYARDGRASS)										.2	.5			.7
ALL OTHERS	1.0							2.0						3.0
TOTAL	36.0	23.0	95.0	210.0		60.0	50.0	75.0	4.0	80.9	22.7	51.5	9.0	717.1

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
GERMAN FOXTAIL												
NEBRASKA COMMON		1.0	20.0		1.0		2.0					24.0
SIBERIAN			10.0		.8						2.0	2.0
WHITE WONDER			20.0								10.0	20.8
HUNGARIAN					.8							20.0
GOLDEN GERMAN			1.5									.8
WHITE PROSO		14.0	54.0								5.0	1.5
RED TURGHAI			20.0									73.0
AKRON			2.0									20.0
LEONARD			2.5									2.0
GAHI I												2.5
STARR												1.2
PEARL NO. 7							1.2					.5
							.5					.8
							.8					
TOTAL	15.0	130.0	2.6				4.5				17.0	169.1

MILLET Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES					1000 ACRES			
GERMAN FOXTAIL	1.4	2.7	9.64	1.0	GERMAN FOXTAIL	17.6	27.3	10.07	1.0
HUNGARIAN	5.7	3.2	11.42	1.0	NEBRASKA COMMON	2.0	6.0	2.21	1.0
COM. PEARL CATTAIL	.4	1.1	3.92	1.0	SIBERIAN	52.9	42.3	15.60	1.0
GAHI I	.1	.1	.35	1.0	WHITE WONDER	.3	.1	.03	1.0
JAP. (BARNYARDGRASS)		20.9	74.64	1.0	HUNGARIAN	3.9	8.5	3.13	1.0
TOTAL		28.0			COMMON FOXTAIL	3.6	8.1	2.98	1.0
					EMPIRE	.5	.5	.18	1.0
					WHITE PROSO	52.2	95.0	35.05	1.0
					EARLY FORTUNE	24.1	28.9	10.66	1.0
					RED TURGHAI		22.1	8.15	1.0
					MANTA	1.9	13.0	4.79	1.2
					CANADIAN CROWN		.2	.07	.9
					PANHANDLE PROSO		.5	.18	1.2
					GAHI I	.9	10.0	3.69	1.2
					STARR		1.0	.36	1.0
					JAP. (BARNYARDGRASS)		3.0	1.10	1.0
					ALL OTHERS		4.5	1.66	
					TOTAL		271.0		
SOUTHERN					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1962-66 AVERAGE	1969				1962-66 AVERAGE	1969		
	1000 ACRES					1000 ACRES			
GERMAN FOXTAIL	124.1	57.0	7.94	1.0	GERMAN FOXTAIL	15.6	24.0	14.19	1.0
COMMON FOXTAIL	3.5				NEBRASKA COMMON	1.8	2.0	1.18	1.0
WHITE PROSO		2.7	.37	1.1	SIBERIAN	20.5	20.8	12.30	1.0
BROWNTOP		93.0	12.96	1.0	WHITE WONDER	22.5	20.0	11.82	1.0
DOVE PROSO		.5	.07	1.1	HUNGARIAN	.3	.8	.47	1.0
LEONARD		.5	.07	1.0	COMMON FOXTAIL	2.6			
COM. PEARL CATTAIL	146.4	67.0	9.34	.9	GOLDEN GERMAN		1.5	.88	1.2
GAHI I	327.0	280.6	39.13	1.1	WHITE PROSO	73.0	73.0	43.17	1.0
STARR	47.6	200.1	27.90	1.0	RED TURGHAI	20.0	20.0	11.82	1.0
PEARL NO. 7		12.0	1.67	1.1	AKRON		2.5	1.18	1.1
JAP. (BARNYARDGRASS)	.5	.7	.09	1.1	LEONARD		2.5	1.47	1.1
ALL OTHERS	4.5	3.0	.41		GAHI I	2.7	1.2	.71	1.0
TOTAL		717.1			STARR		.5	.29	1.0
					PEARL NO. 7		.8	.47	1.0
					TOTAL		169.1		

MILLET Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.
A C R E A G E

VARIETY	A C R E A G E		S T A T E S		
	1962-66	1969	TOTAL ACREAGE	EXPECTED REPORTING RECOMMENDED	
	AVERAGE		PERCENT	TREND	NO. NO.
GAHI I	330.7	291.9	24.62	1.1	14 15
STARR	47.6	201.6	17.01	1.0	13 16
WHITE PROSO	52.2	170.7	14.40	1.0	13 19
GERMAN FOXTAIL	158.7	111.0	9.36	1.0	19 26
BROWNTOP		93.0	7.84	1.0	6 8
COM. PEARL CATTAIL	146.8	68.1	5.74	1.0	10 14
SIBERIAN	73.4	63.1	5.32	1.0	8 10
RED TURGHAI		42.1	3.55	1.0	6 8
EARLY FORTUNE	24.1	28.9	2.43	1.0	5 8
JAP. (BARNYARDGRASS)	.5	24.6	2.07	1.0	10 14
WHITE WONDER	22.8	20.1	1.69	1.0	2 2
MANTA	1.9	13.0	1.09	1.2	1 1
PEARL NO. 7		12.8	1.08	1.0	3 3
HUNGARIAN	9.9	12.5	1.05	1.0	13 16
COMMON FOXTAIL	9.7	8.1	.68	1.0	2 1
NEBRASKA COMMON	3.8	8.0	.67	1.0	2 3
ALL OTHERS	4.5	7.5	.63		
LEONARD		3.0	.25	1.1	2 2
AKRON		2.0	.16	1.1	1 1
GOLDEN GERMAN		1.5	.12	1.2	1 1
EMPIRE		.5	.04	1.0	1 1
PANHANDLE PROSO		.5	.04	1.2	1 1
DOVE PROSO		.5	.04	1.1	1 2
CANADIAN CROWN		.2	.01	.9	1 2
TOTAL		1,185.2			

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PLANT ONLY TESTED SEED

To Assure:

- ★ **VARIETAL PURITY**
- ★ **HIGH GERMINATION**
- ★ **FREEDOM FROM WEEDS**
- ★ **FREEDOM FROM OTHER
CROP SEED**

**GOOD SEED IS ALWAYS
YOUR BEST BARGAIN!**